

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
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CENSUS OF MANUFACTURES: 1914

GEORGIA

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EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention should be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or whose products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1914, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products very different from those covered by the class designation, and, on the other hand, may not include the total product covered by this designation, because some part of this product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

Selected industries.—The general tables at the end of this bulletin give the principal facts separately for the industries of the state. A selection has been made of the leading industries of the state for more detailed consideration. Sometimes an industry of greater importance than some of those selected is omitted because it comprises so few establishments that these detailed presentations would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice, as a rule, has been followed in compiling the statistics of 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1914, 1909, and 1904, therefore, does not show separately all the industries given for 1914 in the detailed statement for the state.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1914 and 1909 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The average thus obtained approximates the number of wage earners that would be required to perform the work done if all were constantly employed during the entire year. Accordingly, the importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is believed not to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

(2)

In particular, totals by sex and age for the wage earners reported for the representative day for all industries combined would be misleading because of the undue weight given to seasonal industries, in some of which, such as canning and preserving, the distribution of the wage earners by sex and age is materially different from that in most industries of more regular operation. In order to determine as nearly as possible the sex and age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by sex and age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average number of men, women, and children employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month and represent the approximate number who would be required to perform the work in any industry if all were continuously employed during the year, whereas the actual number to whom the total wages were paid would be larger.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, all or practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital.—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the census of 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include internal revenue, corporation income tax, and state, county, and local taxes. In some instances the amount of the corporation tax for 1914 had not been ascertained when the report was prepared and the amount paid for 1913 was therefore given.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture.—The value of products is not a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of interest or depreciation, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use, since in most cases an engine or motor is not required to deliver continuously its full rated horsepower.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, oil, and gas. They relate to the quantity used during the year, which may be more or less than the quantity purchased. As only the principal varieties of fuel are shown, no comparison can be made with the total cost of all fuel.

GEORGIA.

By F. W. CHASE.

GENERAL STATISTICS.

General character of the state.—Georgia is one of the thirteen original states. With a gross area of 59,265 square miles, of which 58,725 represent land surface, it ranks twentieth in size among the states of the Union. Its inhabitants in 1900 numbered 2,216,331, in 1910, 2,609,121; and its estimated population in 1914 was 2,777,000. In total population Georgia ranked tenth among the states in 1910; and in density of population it ranked twenty-first, with 44.4 inhabitants per square mile, the corresponding figure for 1900 being 37.7.

The urban population in 1910—that is, the population residing in incorporated places of 2,500 or more—was 538,650, or 20.6 per cent of the total, as against 15.6 per cent in 1900. There were in the state in 1914 nine cities, each with an estimated population of more than 10,000: Athens, Atlanta, Augusta, Brunswick, Columbus, Macon, Rome, Savannah, and Waycross. These cities, whose aggregate population constituted 15.2 per cent of the estimated total population of Georgia in that year, reported 39 per cent of the value of the state's manufactured products.

The steam-railway mileage of Georgia in 1914 was 7,433, and the electric-railway mileage in 1912 was 341. The railway transportation facilities are supplemented by four rivers, which are generally navigable as far north as a line extending from Augusta to Columbus and by numerous fine harbors on the Atlantic.

In addition, foreign and domestic commerce are important factors in furthering its manufacturing interests, Savannah being one of the most important seaports of the South.

Cotton raising is the leading industry. Of the total value of crops grown in Georgia in 1909, \$226,595,436, this staple (including its seed) contributed \$149,937,058, or nearly two-thirds. The state's production of cotton in 1914 was 2,718,037 equivalent 500-pound bales, or about one-sixth of the total yield in the United States.

The value of merchandise exported during the fiscal year 1914 from the four ports of entry comprised in the Georgia customs district was \$110,594,981. The exports of Savannah amounted to \$90,738,842.

Importance and growth of manufactures.—Georgia's manufactured products in 1914 were valued at \$253,270,511, and the average number of wage earners employed in its manufacturing industries was 104,461. In that year the state ranked twenty-second in the former respect and sixteenth in the latter; the corresponding rankings in 1909 were twenty-fourth and seventeenth as measured by value. The output of manufactured products in Georgia in 1914 represented 1 per cent of the total for the United States, practically the same as in 1909.

Table 1 summarizes the more important data relative to all classes of manufactures combined for the censuses of 1914, 1909, 1904, and 1899, and gives percentages of increase from census to census.

Table 1	MANUFACTURING INDUSTRIES.				PER CENT OF INCREASE. ¹		
	1914	1909	1904	1899	1909-1914	1904-1909	1899-1904
Number of establishments.....	4,639	4,792	3,219	3,015	-3.2	48.9	6.8
Persons engaged.....	118,565	118,036	102,365	(²)	0.4	15.3	.....
Proprietors and firm members.....	4,443	5,141	3,512	(²)	-13.6	46.4	.....
Salaried employees.....	9,661	8,307	6,104	3,815	16.3	36.1	60.0
Wage earners (average number).....	104,461	104,588	92,749	83,336	-0.1	12.8	11.3
Primary horsepower.....	357,403	298,241	220,419	136,499	19.8	35.3	61.5
Capital.....	\$258,325,811	\$202,777,665	\$135,211,551	\$79,303,316	27.4	50.0	70.5
Salaries and wages.....	49,950,684	43,866,425	33,319,963	23,161,796	13.9	31.7	43.9
Salaries.....	11,822,277	9,061,607	5,927,521	3,203,643	30.5	52.9	85.0
Wages.....	38,128,407	34,804,818	27,392,442	19,958,153	9.5	27.1	37.2
Paid for contract work.....	817,739	757,805	656,575	(²)	7.9	15.4	.....
Rent and taxes (including internal revenue).....	2,785,194	1,981,845	³ 1,146,250	40.5	.....	.....	.....
Cost of materials.....	160,088,609	116,969,764	83,624,504	49,356,296	36.9	39.9	69.4
Value of products.....	253,270,511	202,863,282	151,040,455	94,532,368	24.8	34.3	59.8
Value added by manufacture (value of products less cost of materials).....	93,181,902	85,893,498	67,415,951	45,176,072	8.5	27.4	49.2

¹ A minus sign (-) denotes decrease.

² Figures not available.

³ Exclusive of internal revenue.

MANUFACTURES—GEORGIA.

There was an increase from 1909 to 1914 in most of the items shown in the preceding table. The decreases in number of establishments, proprietors, and firm members, and average number of wage earners are due primarily to the fact that at the census of 1909 a large number of reports were secured from small lumber mills. Mills engaged exclusively in custom sawing for consumption in the immediate neighborhood should not be included in the census, but it is not

always possible to conduct the enumeration in regard to these establishments on uniform lines at different censuses. The decreases under these conditions are no indication of a decrease in the manufacturing activities of the state.

Table 2 shows the relative importance of the leading manufacturing industries in 1914, and the percentages of increases for the three five-year periods from 1899 to 1914.

Table 2

Table 2	INDUSTRY.	CENSUS OF 1914.						PER CENT OF INCREASE. ¹									
		Number of establishments.	Wage earners.		Value of products.		Value added by manufacture.		Wage earners (average number).			Value of products.			Value added by manufacture.		
			Average number.	Per cent distribution.	Amount.	Per cent distribution.	Amount.	Per cent distribution.	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904
All industries.....	4,639	104,461	100.0	\$253,270,511	100.0	\$93,181,902	100.0	-0.1	12.8	11.3	24.8	34.3	59.8	8.5	27.4	40.2	
Cotton goods.....	118	30,719	29.4	59,982,008	23.7	18,772,434	20.1	10.5	15.2	32.0	24.9	36.6	90.6	17.4	41.0	54.4	
Oil, cottonseed, and cake.....	153	4,212	4.0	32,714,801	12.9	5,478,881	5.9	45.8	25.2	45.0	38.4	74.6	87.9	30.4	84.4	21.1	
Fertilizers.....	230	3,833	3.7	29,045,903	11.5	7,825,983	8.4	38.4	26.4	95.0	72.9	77.6	181.0	33.6	99.6	188.5	
Lumber and timber products.....	1,588	18,196	17.4	22,114,995	8.7	12,803,996	13.7	-18.2	13.1	0.3	-10.2	13.8	21.4	-20.6	7.6	32.1	
Food preparations, not elsewhere specified.....	15	692	0.7	16,824,265	6.6	2,777,279	3.0	220.4	.....	.....	162.5	.....	.....	213.1	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	34	6,943	6.7	8,970,460	3.5	4,850,393	5.2	10.8	31.2	50.5	37.3	36.9	55.9	35.8	31.4	51.9	
Printing and publishing.....	441	2,476	2.4	7,575,931	3.0	5,603,577	6.0	3.4	15.9	11.0	18.4	60.8	67.2	16.5	63.1	68.9	
Flour-mill and gristmill products.....	128	367	0.4	6,083,760	2.4	829,580	0.9	-4.9	-16.8	3.6	-24.0	-2.2	53.6	-34.7	39.1	4.0	
Foundry and machine-shop products.....	116	2,648	2.5	5,829,097	2.3	3,270,783	3.5	-8.4	-7.1	28.8	0.4	10.3	47.5	4.0	-2.1	63.5	
Hosiery and knit goods.....	22	3,468	3.3	4,892,931	2.0	1,830,079	2.0	26.4	41.8	60.2	51.3	39.0	89.0	34.5	49.7	91.8	
Turpentine and rosin.....	562	9,118	8.7	4,607,590	1.8	3,434,960	3.7	-28.7	9.0	-38.8	-33.6	-10.0	-5.0	-39.5	-13.3	12.6	
Marble and stone work.....	100	2,622	2.5	3,651,595	1.4	2,537,931	2.7	24.9	4.0	169.8	37.9	10.0	183.6	36.8	4.1	219.9	
Mineral and soda waters.....	204	846	0.8	3,385,747	1.3	1,662,040	1.8	55.2	58.0	.....	84.5	96.4	375.4	90.1	55.6	329.0
Bread and other bakery products.....	107	726	0.7	2,537,212	1.0	1,018,115	1.1	47.8	24.0	64.3	65.6	63.8	56.4	69.7	60.0	22.1	
Clothing, men's, including shirts.....	21	1,303	1.2	2,518,386	1.0	894,661	1.0	4.9	21.5	-19.9	30.2	30.5	32.2	16.8	38.5	19.2	
Brick, tile, pottery, and other clay products.....	67	1,907	1.8	2,421,149	1.0	1,587,823	1.7	-23.5	22.3	2.6	4.1	27.9	44.3	-3.0	25.2	37.2	
Carriages and wagons and materials.....	65	955	0.9	2,354,208	0.9	990,208	1.1	-9.8	-5.0	38.0	-8.0	11.2	74.9	-17.0	10.4	38.1	
Confectionery.....	18	636	0.6	2,065,088	0.8	822,293	0.9	-1.9	10.0	46.5	-4.9	38.3	88.7	11.2	23.1	92.0	
Ice, manufactured.....	74	890	0.9	2,064,984	0.8	1,453,498	1.6	80.2	23.8	59.0	77.6	35.5	87.7	63.7	35.0	90.4	
Furniture.....	34	1,865	1.3	2,042,263	0.8	993,096	1.1	-2.9	-23.1	35.0	-0.9	-2.6	66.1	-15.6	-3.0	60.4	
Gas, illuminating and heating.....	19	560	0.5	2,020,780	0.8	1,367,791	1.5	22.0	-4.8	77.8	41.9	34.3	60.5	29.4	37.3	48.4	
Leather goods.....	40	778	0.7	2,003,724	0.8	590,178	0.6	13.9	-33.1	51.5	-3.9	0.7	61.9	-21.7	0.9	68.2	
Agricultural implements.....	18	577	0.6	1,501,347	0.6	656,518	0.7	4.5	-5.5	62.2	34.4	7.4	40.9	22.9	21.9	46.0	
Copper, tin, and sheet-iron products.....	23	499	0.5	1,375,978	0.5	596,863	0.6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Patent medicines and compounds and druggists' preparations.....	45	155	0.1	1,219,358	0.5	627,088	0.7	-26.2	25.0	-5.1	-14.2	-7.8	34.4	-35.9	-19.9	84.9	
Boxes and cartons, paper.....	5	363	0.3	1,124,562	0.4	338,368	0.4	17.5	39.8	-1.4	516.2	51.6	51.6	-4.4	261.2	2.1	
Mattresses and spring beds.....	17	299	0.3	915,941	0.4	409,141	0.4	-3.5	37.2	247.7	-3.5	39.4	196.1	-6.4	67.4	214.5	
Liquors, malt.....	3	193	0.2	871,764	0.3	491,670	0.5	-9.0	-33.5	6.3	-27.8	-6.0	32.0	-37.8	-19.1	40.3	
Bags, other than paper.....	4	287	0.3	698,081	0.3	416,761	0.4	42.1	.....	.....	15.5	.....	202.1	.....	.....	.....
Woolen goods.....	3	524	0.5	597,876	0.2	243,329	0.3	-20.6	2.0	15.3	-31.4	32.8	33.6	-43.1	84.5	10.0	
All other industries.....	365	6,304	6.0	19,257,917	7.7	8,006,585	8.6	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Percentages are based on figures in Table 34; a minus sign (—) denotes decrease; percentages are omitted where base is less than 100, or where comparable figures can not be given.

Separate statistics are presented for 30 industries, or industry groups, for each of which products valued at more than \$500,000 were reported for 1914. These industries include 5 with products exceeding \$10,000,000 in value, 4 with products between \$5,000,000 and \$10,000,000, and 13 with products between \$2,000,000 and \$5,000,000 in value. Among those included under the head of "All other industries," the statistics for which can not be shown separately without the possibility of disclosing the operations of individual establishments, are a number which have products exceeding in value some for which figures are shown in this table as follows—bags, other than paper; leather belting; cordials and flavoring sirups; iron and steel, steel works and rolling mills;

leather, tanned and curried; slaughtering and meat packing; and cotton waste. The industries in this table are arranged in the order of their importance as shown by value of products, but the arrangement would differ considerably from that given if based on average number of wage earners or value added by manufacture. Cotton goods holds first place in all three respects. Oil, cottonseed, and cake, second in value of products, was fifth in number of wage earners and in value added by manufacture. Fertilizers, third in value of products and in value added by manufacture, was sixth in number of wage earners. Flour-mill and gristmill products was eighth in value of products, twenty-fourth in average number of wage earners, and nineteenth in value added by

manufacture. The latter industry consists largely of the simple process of grinding grain, requiring few employees, and the proportional value added to the raw material by manufacture is very small in comparison with the corresponding proportions for most other industries.

In rank according to value of products there were few important changes in 1914 as compared with 1909. Of the more important industries shown in this table, cotton goods is the only industry holding the same rank as in 1909.

Oil, cottonseed, and cake, and fertilizers have advanced from third and fourth places in 1909 to second and third in 1914, while lumber and timber products, flour-mill and gristmill products and turpentine and rosin dropped during this period from second, fifth, and sixth place to fourth, eighth, and eleventh, respectively. Slight changes are noticeable in the remaining industries from census to census.

Cotton goods.—The establishments under this classification comprise mills primarily engaged in the manufacture of cotton goods. At the 1914 census the 118 establishments engaged in this industry reported products amounting to 23.7 per cent of the total products for all industries and 29.4 per cent of the total wage earners. During the five-year period, 1909–1914, the total value of products increased from \$48,037,000 to \$59,982,000, or 24.9 per cent, the average number of wage earners from 27,803 to 30,719, or 10.5 per cent, and the value added by manufacture from \$15,988,000 to \$18,772,000, or 17.4 per cent.

Hosiery and knit goods.—Closely allied to the cotton industry in this state is the manufacture of hosiery and knit goods, which are made almost entirely of cotton materials. Although the value of products of this industry is small when compared with the product reported for cotton goods, it amounted in 1914 to \$4,892,931, representing an increase of 51.3 per cent since 1909.

Oil, cottonseed, and cake.—The statistics presented comprise those for all establishments reported as engaged primarily in extracting oil from cotton seed or in refining crude cottonseed oil. This industry shows a considerable increase from census to census, in value of products and in number of wage earners. For the three five-year periods 1909–1914, 1904–1909, and 1899–1904 the percentages of increase in value of products were 38.4, 74.6, and 67.9, respectively; and the percentages of increase in wage earners for the same periods were 45.8, 25.2, and 45, respectively.

Fertilizers.—This industry, measured by value of products, ranked fourth in 1909, but takes third place in 1914, reporting 230 establishments and giving employment to an average of 3,833 wage earners. For the five-year period 1909–1914 this industry shows an increase of 38.4 per cent in wage earners and 72.9 per cent in value of products. The increased production

of fertilizers in the state was due to the greater demand for fertilizers, the increase in the manufacture of cottonseed oil, and the extensive use of phosphate rock.

Lumber and timber products.—This industry, which embraces logging operations, sawmills, planing mills, and wooden-box factories, was fourth in importance in 1914, dropping from second place in 1909, for reasons explained in the discussion of Table 1. It continues, however, to be the second industry in the state in point of average number of wage earners. The product reported in 1914 was \$22,115,000 and in 1909 \$24,632,000, a decrease of 10.2 per cent, whereas the increase for the decade 1904–1914 was 2.2 per cent; these figures tend to emphasize the fluctuation in the enumeration of this industry.

Persons engaged in manufacturing industries.—Table 3 presents, for 1909 and 1914, the number of persons engaged in manufactures, distributed by sex; the average number of wage earners being distributed also by age. The sex and age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms."

Table 3

CLASS.	Census year.	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES.				
		Total.	Male.	Female.	Per cent of total.	
					Male.	Female.
All classes.....	1914	118,565	101,199	17,366	85.4	14.6
	1909	118,036	100,245	17,791	84.9	15.1
Proprietors and officials.....	1914	8,641	8,488	153	98.2	1.8
	1909	8,793	8,655	138	98.4	1.6
Proprietors and firm members.	1914	4,443	4,327	116	97.4	2.6
	1909	5,141	5,020	115	97.8	2.2
Salaried officers of corporations.	1914	1,504	1,461	23	98.5	1.5
	1909	1,385	1,372	13	99.1	0.9
Superintendents and managers.	1914	2,694	2,680	14	99.5	0.5
	1909	2,237	2,257	10	99.6	0.4
Clerks and other subordinate salaried employees.	1914	5,463	4,679	784	85.6	14.4
	1909	4,665	3,953	702	84.9	15.1
Wage earners (average number)...	1914	104,461	88,032	16,429	84.3	15.7
	1909	104,588	87,637	16,951	83.8	16.2
16 years of age and over.....	1914	97,633	82,878	14,755	84.9	15.1
	1909	98,547	83,998	14,549	85.2	14.8
Under 16 years of age.....	1914	6,828	5,154	1,674	75.5	24.5
	1909	6,041	3,639	2,402	60.2	39.8

In 1914 the number of persons engaged in manufactures was 118,565, of whom 104,461, or nearly nine-tenths, were wage earners, 8,641 were proprietors and officials, and 5,463 were clerks and other subordinate salaried employees. Of the wage earners 16 years of age and over 84.9 per cent were males and 15.1 per cent females. Corresponding figures for individual industries will be found in Table 35.

Table 4 shows, for the several classes of persons engaged in manufactures, the percentage of increase from 1909 to 1914 and the per cent distribution at the two censuses.

MANUFACTURES—GEORGIA.

Table 4

Table 4	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES.									
	CLASS.	Per cent of increase, ¹ 1909-1914.			Per cent distribution.					
		Total.	Male.	Female.	Total.		Male.		Female.	
					1914	1909	1914	1909	1914	1909
All classes.....	0.4	1.0	-2.4	100.0	100.0	100.0	100.0	100.0	100.0	
Proprietors and officials.....	-1.7	-1.9	10.9	7.3	7.4	8.4	8.6	0.9	0.8	
Proprietors and firm members.....	-13.6	-13.9	0.9	3.7	4.3	4.3	5.0	0.7	0.6	
Salaried officers of corporations.....	8.6	7.9	.....	1.3	1.2	1.5	1.4	0.1	0.1
Superintendents and managers.....	18.8	18.7	.....	2.3	1.9	2.6	2.2	0.1	0.1
Clerks and other subordinate salaried employees.....	17.4	18.4	11.7	4.6	3.9	4.6	3.9	4.5	3.9	
Wage earners (average number).....	-0.1	0.5	-3.1	88.1	88.6	87.0	87.4	94.6	95.3	
16 years of age and over.....	-0.9	-1.3	1.4	82.3	83.5	81.9	83.8	85.0	81.8	
Under 16 years of age.....	13.0	41.6	-30.3	5.8	5.1	5.1	3.6	9.6	13.5	

¹ A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

This table shows an increase during the five-year period for the several classes of employees. Among those showing decreases are proprietors and firm members and female wage earners under 16 years of age. The largest percentage of increase for both sexes combined, 18.8, is for superintendents and managers. For the five-year period 1909-1914 there was an increase in the employment of child labor in Georgia, notwithstanding the decrease for females under 16 years of age. This decrease was more than offset by the marked increase, 41.6 per cent, among males of that age. Wage earners 16 years of age and over represented 82.3 per cent of the total number of persons engaged in manufacturing industries in the state in 1914 and 83.5 per cent in 1909.

In order to compare the distribution of persons engaged in manufactures in 1914 with that shown at the census of 1904 it is necessary to use the classification employed at the earlier census. (See "Explanation of terms.") The following table makes this comparison according to occupational status:

Table 5

CLASS.	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES.							
	Number.			Per cent distribution.			Per cent of increase. ¹	
	1914	1909	1904	1914	1909	1904	1909-1914	1904-1909
Total.....	118,565	118,036	102,365	100.0	100.0	100.0	0.4	15.3
Proprietors and firm members.....	4,443	5,141	3,512	3.7	4.4	3.4	-13.6	46.4
Salaried employees.....	9,661	8,307	6,104	8.1	7.0	6.0	16.3	36.1
Wage earners (average number).....	104,461	104,588	92,749	88.1	88.6	90.6	-0.1	12.8

¹ A minus sign (-) denotes decrease.

Of the three classes appearing in this table, salaried employees shows an increase for each five-year period; it is, however, greater for the earlier period.

Table 6 presents, for 1914, 1909, and 1904, for all industries combined and for important industries separately for 1914 and 1909, the average number of wage earners employed and their per cent distribution as males 16 years of age and over, females 16 years of age and over, and children under 16 years of age.

Table 6

INDUSTRY.	Census year.	WAGE EARNERS.			
		Average number. ¹	Per cent of total.		
			16 years of age and over.		Under 16 years of age.
			Male.	Female.	
All industries.....	1914 1909 1904	104,461 104,588 92,749	79.3 80.3 78.5	14.1 13.9 13.6	6.5 5.8 7.9
Agricultural implements.....	1914 1909	577 552	97.1 96.4	..... 0.2	2.9 3.4
Bread and other bakery products.....	1914 1909	726 491	78.9 85.3	17.9 8.3	3.2 6.3
Brick, tile, pottery, and other clay products.....	1914 1909	1,907 2,493	98.9 97.8	(2) (2)	1.0 2.1
Carriages and wagons and materials.....	1914 1909	955 1,059	98.5 96.6	0.7 0.3	0.8 3.1
Cars and general shop construction and repairs by steam-railroad companies.....	1914 1909	6,943 6,269	99.8 99.5	0.1 0.5	(2) (2)
Clothing, men's, including shirts.....	1914 1909	1,303 1,242	11.1 12.8	87.3 85.2	1.6 2.0
Confectionery.....	1914 1909	726 648	49.4 43.7	49.0 52.0	1.5 4.3
Cotton goods.....	1914 1909	30,719 27,803	53.5 52.6	27.8 32.4	18.7 15.0
Fertilizers.....	1914 1909	3,833 2,770	99.4 98.7	(2) 0.1	0.5 1.2
Food preparations, not elsewhere specified.....	1914 1909	692 216	97.1 97.2	2.9 2.3	..... 0.5
Foundry and machine-shop products.....	1914 1909	2,648 2,892	99.3 98.9	0.1 (2)	0.6 1.1
Furniture.....	1914 1909	1,365 1,406	94.3 93.0	1.3 2.0	4.4 5.0
Hosiery and knit goods.....	1914 1909	3,468 2,743	35.0 28.8	56.2 55.1	8.8 16.1
Ice, manufactured.....	1914 1909	890 494	96.3 97.6	0.2	3.5 2.4
Leather goods.....	1914 1909	778 683	89.8 79.9	9.2 14.3	0.9 5.7
Lumber and timber products.....	1914 1909	18,196 22,257	98.8 98.6	0.7 0.4	0.5 1.0
Marble and stone work.....	1914 1909	2,622 2,099	99.0 97.4	..... .....	1.0 2.6
Mineral and soda waters.....	1914 1909	846 545	96.3 93.6	0.8 0.6	2.8 5.9
Oil, cottonseed, and cake.....	1914 1909	4,212 2,888	99.8 99.7	(2) 0.1	0.1 0.2
Printing and publishing.....	1914 1909	2,476 2,395	81.6 77.9	15.2 15.9	3.2 6.2
Turpentine and rosin.....	1914 1909	9,118 12,787	99.3 98.5	(2)	0.6 1.5
All other industries.....	1914 1909	9,461 9,556	76.0 76.2	21.0 19.8	2.9 4.0

¹ For method of estimating the distribution, by sex and age periods, of the average number for all industries combined, see "Explanation of terms."

² Less than one-tenth of 1 per cent.

For all industries combined, the proportion of male wage earners 16 years of age and over shows only a very slight change from census to census, while the proportion of females is practically the same. The proportion of children under 16 employed as wage earners shows a decrease from 1904 to 1909 but an increase from 1909 to 1914.

Of the 17 industries for which separate figures are given in this table, 14 show an increase from 1909 to 1914 in proportion of males and 7 an increase in proportion of females, while in only two—cotton goods and manufactured ice—was there an increase in proportion of children under 16 years of age. Men's clothing and hosiery and knit goods are the only industries in which the proportion of women employed

as wage earners is greatly in excess of that for men. The textile industries gave employment to a considerable proportion of the children. Nearly one-fifth of those engaged in the manufacture of cotton goods were under 16 years of age. In the hosiery and knit-goods industry children under 16 years of age formed 16.1 per cent of the total number of wage earners in 1909, but by 1914 the proportion had fallen to 8.8 per cent.

Table 7 shows the average number and per cent distribution of wage earners employed in each of the nine cities having more than 10,000 inhabitants, classified according to age periods, and in case of those 16 years of age and over, according to sex, for 1914, 1909, and 1904.

SEX AND AGE.	Census year.	AVERAGE NUMBER OF WAGE EARNERS IN—								
		Athens.	Atlanta.	Augusta.	Brunswick.	Columbus.	Macon.	Rome.	Savannah.	Waycross.
Total.....	1914	1,308	12,585	4,925	743	4,802	4,047	1,389	2,485	1,302
	1909	962	12,302	5,073	385	¹ 4,593	¹ 3,606	¹ 1,014	¹ 2,649	1,130
	1904	509	11,891	4,839	254	4,434	3,661		3,230	
16 years of age and over:										
Male.....	1914	802	9,244	3,598	559	3,374	3,501	955	1,928	1,283
	1909	609	8,792	3,495	287	3,074	2,957	755	2,321	1,127
	1904	410	8,624	2,923	239	3,013	2,714		2,978	
Female.....	1914	354	3,074	1,175	183	1,151	462	379	476	16
	1909	287	2,905	1,375	55	1,179	474	192	295	2
	1904	64	2,539	1,493	8	1,064	598		232	
Under 16 years of age.....	1914	152	267	152	1	277	84	55	81	3
	1909	86	605	203	43	340	175	67	33	1
	1904	35	728	423	7	357	349		20	
Per cent of total:										
16 years of age and over—										
Male.....	1914	61.3	73.5	73.0	75.2	70.3	86.5	68.8	77.6	98.5
	1909	63.3	71.5	68.9	74.5	66.9	82.0	74.5	87.6	99.7
	1904	80.6	72.5	60.4	94.1	68.0	74.1		92.2	
Female.....	1914	27.1	24.4	23.9	24.6	24.0	11.4	27.3	19.2	1.2
	1909	27.8	23.6	27.1	14.3	25.7	13.1	18.9	11.1	0.2
	1904	12.6	21.4	30.9	3.1	24.0	16.3		7.2	
Under 16 years of age.....	1914	11.6	2.1	3.1	0.1	5.8	2.1	4.0	3.2	0.2
	1909	8.9	4.9	4.0	11.2	7.4	4.9	6.6	1.2	0.1
	1904	6.9	6.1	8.7	2.8	8.1	9.5		0.6	

¹ Figures do not agree with those published, because it was necessary to revise them in order to include data only for those establishments located within the corporate limits of the city.

Table 8 gives percentages of increase from census to census, based on the figures in Table 7.

The proportion of male wage earners 16 years of age and over is greatly in excess of that for females in every city except Athens, where the sexes were more evenly distributed. Most of the cities show decreases from census to census in both numbers and proportions of wage earners under 16 years of age. The only cities showing increases in this respect during the last five-year period were Athens, Savannah, and Waycross.

Atlanta, the most important city of the state, showed increases in all classes of wage earners employed during the five-year period 1909-1914.

Next to Atlanta, the greatest number of wage earners are reported in Augusta; while it has less than one-half the number of employees reported for Atlanta, it shows an increase from 1909 to 1914 in the number of adult males but a decrease among adult females and children. The highest percentage of increase during the last five-year period in total number of wage earners, 93, is shown for Brunswick; the next, 37, for Rome; and third, 36, for Athens.

CITY.	PER CENT OF INCREASE IN AVERAGE NUMBER OF WAGE EARNERS. ¹				
	Period.	Total.	16 years of age and over.		Under 16 years of age.
			Male.	Female.	
Athens.....	1904-1914	157.0	95.6		
	1909-1914	38.0	31.7	32.6	
	1904-1909	89.0	48.5		
Atlanta.....	1904-1914	5.8	7.2	21.1	-63.3
	1909-1914	2.3	5.1	5.8	-55.9
	1904-1909	3.4	1.9	14.4	-16.9
Augusta.....	1904-1914	1.8	23.1	-21.3	-64.1
	1909-1914	-2.9	2.9	-14.5	-25.1
	1904-1909	4.8	19.6	-7.9	-52.0
Brunswick.....	1904-1914	192.5	133.9		
	1909-1914	93.0	94.8		
	1904-1909	51.6	20.1		
Columbus.....	1904-1914	8.3	12.0	8.2	-22.4
	1909-1914	4.6	9.8	-2.4	-18.5
	1904-1909	3.6	2.0	10.8	-4.8
Macon.....	1904-1914	10.5	29.0	-22.7	-75.9
	1909-1914	12.2	18.4	-2.5	-52.0
	1904-1909	-1.5	9.0	-20.7	-49.8
Rome.....	1909-1914	37.0	26.5	97.4	
Savannah.....	1904-1914	-23.1	-35.3	105.2	
	1909-1914	-6.2	-16.9	61.4	
	1904-1909	-18.0	-22.1	27.2	
Waycross.....	1909-1914	15.2	13.8		

¹ A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

Wage earners employed, by months.—Table 9 gives, for all industries combined, the total number of wage earners employed on the 15th of each month, or the nearest representative day, for the years 1914 and 1909 and the average number employed during each month in 1904, together with the percentage which the number reported for each month forms of the greatest number reported for any month.

MONTH.	WAGE EARNERS IN MANUFACTURING INDUSTRIES.					
	Number. ¹			Per cent of maximum.		
	1914	1909	1904	1914	1909	1904
January.....	109,508	103,477	90,701	95.0	94.2	94.4
February.....	113,257	107,544	90,957	98.2	97.9	94.7
March.....	115,286	108,271	96,087	100.0	98.6	100.0
April.....	109,489	102,881	95,557	95.0	93.7	99.4
May.....	103,890	98,622	92,773	89.9	89.8	96.6
June.....	101,939	99,445	92,347	88.4	90.5	96.1
July.....	101,703	99,518	91,154	88.2	90.6	94.9
August.....	100,898	102,577	89,226	87.5	93.4	92.9
September.....	100,934	106,033	91,742	87.6	96.5	95.5
October.....	100,428	107,837	95,609	87.1	98.2	99.5
November.....	98,749	109,012	95,723	85.6	99.2	99.6
December.....	97,751	109,839	91,112	84.8	100.0	94.8

¹ The figures for 1914 and 1909 represent the number employed on the 15th of each month, or the nearest representative day; those for 1904, the average number employed during the month.

For 1914 February and March show the greatest activity in the combined industries of the state, the maximum number of wage earners appearing for March. The year 1909 shows quite the reverse, November and December being the season of greatest activity, while in 1904 the maximum was March.

The total average number of wage earners employed during 1914 is shown in Table 10, together with the total number employed on the 15th of each month, or the nearest representative day, for the combined industries of the state, for a number of selected industries, and for the total industries of each of the nine cities having a population of more than 10,000.

Of the selected industries, other than those classed as seasonal, agricultural implements, carriages and wagons, men's clothing, and furniture and refrigerators, show the greatest degree of fluctuation in the number of wage earners employed. Bread and bakery products and printing and publishing show the greatest stability of employment. Of the nine cities, Brunswick shows much the greatest fluctuation, the proportion that the minimum formed of the maximum being 41.7 per cent.

Table 10

WAGE EARNERS: 1914.
[Month of maximum employment for each industry is indicated by boldface figures and that of minimum by italic figures.]

INDUSTRY AND CITY.	Average number employed during year.	Number employed on 15th day of the month or nearest representative day.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	104,461	109,508	113,257	115,286	109,489	103,890	101,939	101,703	100,898	100,934	100,428	98,749	<i>97,751</i>	84.8
Agricultural implements.....	577	798	749	607	556	482	<i>407</i>	409	558	545	538	571	644	51.0
Bread and other bakery products.....	726	701	705	717	729	737	789	738	738	781	722	725	730	94.9
Brick, tile, pottery, and other clay products.....	1,907	1,937	1,848	1,895	2,151	2,148	2,191	2,200	2,164	1,823	1,670	1,436	<i>1,421</i>	64.6
Carriages and wagons and materials.....	955	1,106	1,154	1,153	1,095	1,054	1,131	1,110	1,041	814	601	618	<i>583</i>	50.5
Cars and general shop construction and repairs by steam-railroad companies.....	6,943	7,041	6,969	7,062	7,037	6,987	6,988	7,142	7,098	6,927	6,760	<i>6,648</i>	6,657	93.1
Clothing, men's, including shirts.....	1,303	1,435	1,500	1,523	1,502	1,493	1,441	1,489	1,352	1,142	927	897	935	58.0
Cotton goods.....	30,719	31,783	31,725	31,567	31,131	30,804	30,776	30,085	<i>29,259</i>	29,776	30,268	30,664	30,810	92.1
Fertilizers.....	3,833	3,729	7,459	9,997	6,577	3,142	2,113	<i>1,920</i>	1,935	2,061	2,302	2,301	2,460	19.2
Foundry and machine-shop products.....	2,648	2,806	2,755	2,721	2,679	2,715	2,818	2,871	2,921	2,576	2,434	<i>2,251</i>	2,249	76.4
Furniture.....	1,365	1,546	1,593	1,488	1,498	1,488	1,492	1,447	1,412	1,172	1,090	1,094	<i>1,060</i>	66.5
Hosiery and knit goods.....	3,468	3,581	3,530	3,525	3,484	3,446	3,500	3,480	3,504	3,420	3,487	3,422	<i>3,237</i>	90.4
Ice, manufactured.....	890	<i>606</i>	617	692	875	1,063	1,212	1,250	1,170	1,059	821	681	634	48.5
Lumber and timber products.....	18,196	19,965	20,104	20,395	19,257	18,645	17,781	17,783	18,214	17,001	16,465	<i>16,273</i>	16,464	79.8
Marble and stone work.....	2,622	2,371	2,505	2,659	2,617	2,779	2,807	2,882	2,793	2,826	2,749	2,410	<i>2,066</i>	71.7
Oil, cottonseed, and cake.....	4,212	5,854	5,555	4,688	2,949	1,597	1,340	<i>1,284</i>	2,126	5,389	6,688	6,648	<i>6,428</i>	19.2
Printing and publishing.....	2,476	2,489	2,501	2,501	2,540	2,523	2,524	2,494	2,453	2,429	2,427	2,420	<i>2,411</i>	94.9
Turpentine and rosin.....	9,118	8,625	8,814	9,345	10,015	10,116	9,884	10,032	9,322	9,070	8,424	8,055	<i>7,714</i>	76.3
All other industries.....	12,503	13,155	13,174	12,751	12,797	12,371	12,795	13,027	12,838	12,173	12,057	11,650	<i>11,248</i>	85.4
Total for cities.....	33,586	34,882	35,583	35,568	34,900	33,340	33,159	33,140	33,126	32,890	32,642	<i>31,854</i>	31,948	89.5
ATHENS.....	1,308	1,393	1,421	1,417	1,397	1,313	1,283	1,239	1,272	1,235	1,239	<i>1,228</i>	1,261	86.3
ATLANTA.....	12,585	13,060	13,224	13,396	13,246	12,629	12,446	12,449	12,393	12,291	12,193	11,920	<i>11,773</i>	87.9
AUGUSTA.....	4,925	4,708	5,030	5,194	5,110	5,090	5,048	5,013	<i>4,653</i>	4,811	4,925	4,746	<i>4,771</i>	89.6
BRUNSWICK.....	743	1,093	1,098	679	724	470	<i>458</i>	474	772	822	764	794	<i>794</i>	41.7
COLUMBUS.....	4,802	5,019	5,005	4,927	4,838	4,864	4,813	4,855	4,856	4,770	4,611	<i>4,449</i>	4,617	88.6
MACON.....	4,047	4,220	4,227	4,516	4,271	3,910	3,934	4,004	4,015	<i>3,826</i>	3,951	3,863	<i>3,827</i>	84.7
ROME.....	1,389	1,523	1,543	1,416	1,369	1,299	1,356	1,318	1,398	1,395	1,355	1,314	<i>1,382</i>	84.2
SAVANNAH.....	2,485	2,612	2,750	2,788	2,632	2,446	2,448	2,418	2,380	2,421	2,353	<i>2,292</i>	2,300	82.8
WAYCROSS.....	1,302	1,254	1,285	1,255	1,313	1,319	1,373	1,370	1,387	<i>1,373</i>	1,250	<i>1,222</i>	1,223	88.1

Prevailing hours of labor.—Table 11 presents, for 1914 and 1909, for all industries combined and for selected industries separately a classification of wage earners according to number of hours of labor per week

prevailing in the establishments in which they were employed. A similar classification is given, for 1914 only, for all industries combined in each city having more than 10,000 inhabitants. The number employed

in each establishment is classified as a total, even though a few employees worked a greater or a smaller number of hours.

The figures in this table for the state as a whole and for the selected industries illustrate the tendency toward a shortening of the work day of wage earners. In 1914, for all industries combined and for the most of them separately, the majority of the wage earners were employed in establishments in which the prevailing hours of labor were 60 per week. In 1909, 28,880, about one-fourth of the total average number of wage earners for all industries combined, were em-

ployed in establishments where the prevailing hours of labor were more than 60 per week, whereas 12,495, or only about one-tenth, were so employed in 1914. Sixty hours per week is the term of employment in most general use in Georgia, and the establishments reporting it giving employment to 51,424, or 49.2 per cent of the total for the state, in 1909, and to 59,608, or 57.1 per cent of the total, in 1914. During the five-year period there was a marked increase in the proportion of wage earners reported for the establishments in each of the four classes working less than 60 hours per week.

Table 11

INDUSTRY AND CITY.	Census year.	AVERAGE NUMBER OF WAGE EARNERS.								
		Total.	In establishments where the prevailing hours of labor per week were—							
			48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72.	Over 72.
All industries.....	1914	104,461	8,809	5,915	8,538	9,096	59,608	7,162	3,868	1,465
	1909	104,588	7,075	2,948	6,709	7,552	51,424	23,507	3,949	1,424
Agricultural implements.....	1914	577	.....	77	.....	52	448	.....	.....	.....
	1909	552	.....	3	.....	106	443	.....	.....	.....
Bread and other bakery products.....	1914	726	78	40	140	5	256	114	73	20
	1909	491	17	.....	9	65	240	80	34	46
Brick, tile, pottery, and other clay products.....	1914	1,907	45	186	148	200	1,082	238	8	.....
	1909	2,493	64	160	.....	254	1,716	285	.....	14
Carriages and wagons and materials.....	1914	955	12	2	42	169	730	.....	.....	.....
	1909	1,059	50	.....	14	142	847	3	3	.....
Cars and general shop construction and repairs by steam-railroad companies.....	1914	6,943	578	378	4,688	.....	55	1,244	.....	.....
	1909	6,269	.....	412	4,440	318	1,082	9	.....	8
Clothing, men's, including shirts.....	1914	1,303	669	77	164	373	20	.....	.....	.....
	1909	1,242	724	18	129	248	123	.....	.....	.....
Cotton goods.....	1914	30,719	.....	.....	.....	117	30,602	.....	.....	.....
	1909	27,803	304	105	.....	519	10,868	15,913	94	.....
Fertilizers.....	1914	3,833	41	121	542	837	2,163	67	28	34
	1909	2,770	4	7	7	159	2,146	87	108	252
Foundry and machine-shop products.....	1914	2,648	134	411	341	817	939	4	.....	2
	1909	2,892	5	308	40	796	1,743	.....	.....	.....
Furniture.....	1914	1,365	15	21	217	300	812	.....	.....	.....
	1909	1,406	.....	112	128	174	992	.....	.....	.....
Hosiery and knit goods.....	1914	3,468	.....	.....	.....	896	2,346	226	.....	.....
	1909	2,743	.....	.....	.....	1,120	658	965	.....	.....
Ice, manufactured.....	1914	890	.....	.....	26	5	42	438	94	285
	1909	494	.....	.....	.....	.....	58	34	66	336
Lumber and timber products.....	1914	18,196	1,293	1,731	504	1,731	8,693	3,980	129	135
	1909	22,257	865	732	144	875	14,722	4,437	452	30
Marble and stone work.....	1914	2,622	682	429	125	212	1,174	.....	.....	.....
	1909	2,099	952	125	148	130	744	.....	.....	.....
Oil, cottonseed, and cake.....	1914	4,212	11	14	76	.....	217	579	3,315	.....
	1909	2,888	.....	.....	6	.....	338	359	2,146	39
Printing and publishing.....	1914	2,476	1,495	292	393	82	191	4	.....	19
	1909	2,395	793	226	664	302	390	.....	1	19
Turpentine and rosin.....	1914	9,118	2,953	868	90	419	4,700	.....	88	.....
	1909	12,787	2,764	428	139	109	9,032	241	74	.....
All other industries.....	1914	12,503	803	1,268	1,042	2,881	5,138	268	133	970
	1909	11,948	533	312	841	2,235	5,282	1,094	971	680
Total for cities.....	1914	33,586	2,928	2,235	5,591	3,633	15,368	2,465	841	525
ATHENS.....	1914	1,308	55	.....	77	72	1,037	17	41	9
ATLANTA.....	1914	12,585	1,850	866	2,471	2,527	3,780	363	455	273
AUGUSTA.....	1914	4,925	170	366	515	20	3,588	218	.....	48
BRUNSWICK.....	1914	743	.....	237	25	77	381	17	.....	6
COLUMBUS.....	1914	4,802	37	208	304	141	3,595	389	114	14
MACON.....	1914	4,047	311	126	1,264	336	1,500	209	193	108
ROME.....	1914	1,389	31	74	166	199	849	42	10	18
SAVANNAH.....	1914	2,485	441	349	744	261	584	32	28	46
WAYCROSS.....	1914	1,302	33	9	25	.....	54	1,178	.....	3

Among the separate industries, cotton goods shows the most pronounced decrease in hours of labor. In

1909, 42.4 per cent of the wage earners in this industry were employed in establishments where the hours of

labor were 60 or less per week, but in 1914 no establishments reported over 60 hours per week. In cars and general shop construction and repairs by steam-railroad companies, however, nearly seven-tenths were reported by establishments where the prevailing hours were 54 per week; and in printing and publishing approximately all the employees were reported in establishments with prevailing hours 48 to 60 per week. This is also true of the following industries: Agricultural implements, carriages and wagons, foun-

dry and machine-shop products, furniture and refrigerators, and marble and stone work.

In the cities the proportion of wage earners in establishments in which the prevailing hours are 60 or less predominate to a large extent; Waycross being the only exception to this rule.

Location of establishments.—Table 12 shows, for 1914, 1909, and 1899, the extent to which the manufactures in Georgia were centralized in the nine cities having more than 10,000 inhabitants.

Table 12	Census year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.								DISTRICTS OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.
Number of places.....	1914 1910 1900	----- ----- -----	9 9 6	----- ----- -----	5 5 3	----- ----- -----	3 3 3	----- ----- -----	1 1 1	----- ----- -----	----- ----- -----	----- ----- -----
Population ¹	1914 1910 1900	2,776,513 2,609,121 2,216,331	421,051 373,841 234,688	15.2 14.3 10.6	81,634 72,233 51,131	2.9 2.8 2.3	160,125 146,769 183,557	5.8 5.0 8.3	179,292 154,839 -----	6.5 5.9 -----	2,355,462 2,235,240 1,981,643	84.8 85.7 89.4
Number of establishments.....	1914 1909 1899	4,639 4,792 3,015	925 938 509	19.9 19.6 16.9	230 172 151	5.0 3.6 5.0	272 285 358	5.9 5.9 11.9	423 483 -----	9.1 10.1 -----	3,714 3,854 2,506	80.1 80.4 83.1
Average number of wage earners....	1914 1909 1899	104,461 104,583 83,336	33,586 31,714 23,471	32.2 30.3 28.2	9,544 8,084 7,698	9.1 7.7 9.2	11,457 11,328 15,778	11.0 10.8 18.9	12,585 12,302 -----	12.0 11.8 -----	70,875 72,874 59,805	67.8 69.7 71.8
Value of products.....	1914 1909 1899	\$253,270,511 202,863,262 94,532,368	\$98,864,550 74,414,871 37,344,230	39.0 36.7 39.5	\$19,870,462 14,328,986 11,191,072	7.8 7.1 11.8	\$37,715,161 27,047,883 26,153,158	14.9 13.3 27.7	\$41,278,927 33,038,002 -----	16.3 16.3 -----	\$154,405,961 128,448,391 57,188,138	61.0 63.3 60.5
Value added by manufacture.....	1914 1909 1899	93,181,902 85,693,498 45,176,072	37,869,835 32,777,875 16,425,644	40.6 38.2 36.4	7,950,562 5,530,776 4,669,365	8.5 6.4 10.3	11,757,402 10,627,414 11,756,279	12.6 12.4 26.0	18,161,871 16,619,685 -----	19.5 19.3 -----	55,312,067 53,115,623 28,760,428	59.4 61.8 63.6

¹ Census estimate of population for 1914.

In 1914 the cities which represented 15.2 per cent of the estimated population of the state reported 39 per cent of the total value of products, 32.2 per cent of the total average number of wage earners, and 19.9 per cent of the total number of establishments.

Table 13 shows, for 1914, 1909, and 1904, the relative importance in manufactures of each of the nine cities of more than 10,000 inhabitants, for which comparative statistics are available, as measured by the value of products in 1914.

Measured by the value of products the cities in this table hold the same relative position as in 1909, with the exception of Rome and Athens. In that year Athens ranked sixth and Rome seventh.

Table 13	AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.		
	1914	1909	1904	1914	1909	1904
Atlanta.....	12,585	12,302	11,891	\$41,278,927	\$33,038,002	\$25,745,650
Macon.....	4,047	3,606	3,661	18,867,439	10,052,363	7,297,347
Augusta.....	4,925	5,073	4,839	12,138,224	10,466,407	8,829,305
Columbus.....	4,802	4,593	4,434	10,619,358	8,477,653	7,079,702
Savannah.....	2,485	2,649	3,230	6,709,498	6,539,113	6,340,004
Rome.....	1,389	1,014	-----	3,300,894	1,864,257	-----
Athens.....	1,308	962	509	3,023,492	2,111,516	1,153,205
Waycross.....	1,302	1,130	-----	2,085,886	1,203,393	-----
Brunswick.....	743	385	254	840,833	672,167	406,723

¹ Figures do not agree with those published, because it was necessary to revise them in order to include data only for those establishments located within the corporate limits of the city.

Atlanta, the largest city in the state and commercially one of the most important in the South, shows a great diversity in manufacturing activities; among the leading industries being cotton goods, confectionery, foundries and machine shops, lumber and timber, and printing and publishing. For the five-year period 1909-1914 the total value of products increased 24.9 per cent and for the decade 60.3 per cent. The principal activities in Macon are centered in the car shops, cotton manufacturing, food preparations, and oil, cottonseed, and cake. In Augusta cotton manufacturing, fertilizers, and oil, cottonseed, and cake reported products valued at over one million dollars. Columbus has, in addition to the industries mentioned in the last-named two cities, extensive flour mills and gristmills.

Savannah, the second city in the state in respect to population, is less important as a manufacturing city. This is indicated by the fact that it holds only fifth place when ranked by value of products and average number of wage earners; it is, however, the most important seaport of the state, and through it a large part of Georgia's manufactured products are exported or reshipped to other parts of the country. Only one industry—fertilizers—reached \$1,000,000 in value of products for the year 1914.

Character of ownership.—Statistics concerning character of ownership, or legal organization, of manufacturing enterprises of Georgia are shown in the following table. Comparative figures for all industries combined are given for 1914, 1909, and 1904; for

selected industries, for 1914 and 1909; for individual cities the figures are for all industries combined and relate only to 1914. In order to avoid disclosure of operations of individual establishments, it is necessary to omit several important industries from this table.

Table 14

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
		Indi- vidu- als.	Cor- pora- tions.	All oth- ers.		Indi- vidu- als.	Cor- pora- tions.	All oth- ers.	Indi- vidu- als.	Cor- pora- tions.	All oth- ers.		Individu- als.	Corpora- tions.	All others.	Indi- vidu- als.	Corpora- tions.	All oth- ers.				
All industries.....	1914	2,159	1,354	1,126	104,461	12,543	80,181	11,737	12.0	76.8	11.2	\$253,270,511	\$15,877,335	\$221,271,069	\$16,122,107	6.3	87.4	6.4				
	1909	2,292	1,252	1,248	104,588	16,527	72,207	15,854	15.8	69.0	15.2	202,863,262	19,355,313	165,057,980	18,449,969	9.5	81.4	9.1				
	1904	1,401	931	887	92,749	15,673	62,077	14,999	16.9	66.9	16.2	151,040,455	17,808,471	114,976,572	18,255,412	11.8	76.1	12.1				
Agricultural implements..	1914	4	9	5	577	14	531	32	2.4	92.0	5.5	1,501,347	21,876	1,380,941	98,530	1.4	92.0	6.6				
	1909	1	7	9	552	1	503	149	91.1	8.9		1,116,700	1,017,640	1,017,640	199,060	91.1	8.9					
Bread and other bakery products.	1914	87	9	11	726	400	249	77	55.1	34.3	10.6	2,537,212	1,084,527	1,147,139	305,546	42.7	45.2	12.0				
	1909	93	6	11	491	336	102	53	68.4	20.8	10.8	1,531,978	974,044	1,387,144	170,790	63.6	25.3	11.2				
Brick, tile, pottery, and other clay products.....	1914	24	30	13	1,907	129	1,590	188	6.8	83.4	9.8	2,421,149	102,100	2,061,805	257,244	4.2	85.2	10.6				
	1909	38	38	26	2,493	334	1,897	262	13.4	76.1	10.5	2,324,964	315,333	1,831,857	177,774	13.6	78.8	7.6				
Carriages and wagons and materials.	1914	32	17	16	955	223	586	146	23.4	61.4	15.3	2,354,208	440,601	1,658,510	255,097	18.7	70.4	10.8				
	1909	45	21	17	1,059	291	629	139	27.5	59.4	13.1	2,560,031	476,012	1,793,256	290,763	18.6	70.0	11.4				
Cars and general shop construction and repairs by steam-railroad companies.	1914	.....	34	.....	6,943	.....	6,943	.....	100.0	.....	.....	8,970,460	.....	8,970,460	.....	100.0	.....	.....		
	1909	.....	34	.....	6,269	.....	6,269	.....	100.0	.....	.....	6,535,035	.....	6,535,035	.....	100.0	.....	.....		
Clothing, men's, including shirts.	1914	4	13	4	1,303	209	722	372	16.0	55.4	28.5	2,518,386	335,124	1,757,769	425,493	13.3	69.8	16.9				
	1909	3	13	6	1,242	229	606	407	18.4	48.8	32.8	1,933,659	353,087	1,795,267	782,305	18.3	41.3	40.4				
Cotton goods.....	1914	6	111	1	30,719	2,467	30,252	.....	1.5	98.4	.....	59,982,008	2,708,343	59,273,665	.....	1.2	98.8	.....			
	1909	6	108	2	27,803	2,884	26,919	.....	3.2	96.8	.....	48,036,817	2,186,939	46,172,878	.....	3.9	96.1	.....			
Fertilizers.....	1914	22	108	40	3,833	56	3,502	281	1.3	91.4	7.3	29,045,903	461,049	26,225,456	2,359,398	1.6	90.3	8.1				
	1909	11	78	21	2,770	30	2,472	262	1.3	89.2	9.5	16,800,301	284,545	15,138,939	1,376,817	1.7	90.1	8.2				
Foundry and machine-shop products.....	1914	41	46	29	2,648	234	2,188	226	8.8	82.6	8.5	5,829,907	471,993	5,033,046	324,868	8.1	86.3	5.6				
	1909	33	52	22	2,892	224	2,459	209	7.7	85.0	7.2	5,808,152	437,139	4,951,430	419,583	7.5	85.2	7.2				
Furniture.....	1914	5	26	3	1,365	23	1,310	32	1.7	96.0	2.3	2,042,263	35,937	1,939,926	66,400	1.8	95.0	3.2				
	1909	11	23	8	1,406	85	1,262	59	6.0	89.8	4.2	2,060,185	131,350	1,830,331	98,504	6.4	83.8	4.8				
Ice, manufactured.....	1914	20	44	10	890	84	758	48	9.4	85.2	5.4	2,064,984	196,044	1,758,860	110,080	9.5	85.2	5.3				
	1909	14	40	7	494	78	377	39	15.8	70.3	7.9	1,162,636	175,045	910,801	76,790	15.1	73.3	6.6				
Lumber and timber products.	1914	1,014	140	434	18,196	5,172	9,475	3,549	28.4	52.1	19.5	22,114,995	5,256,806	12,464,162	4,394,027	23.8	56.4	19.9				
	1909	1,144	173	509	22,257	6,730	10,519	5,008	30.2	47.3	22.5	24,632,093	6,370,663	12,838,629	5,422,801	25.9	52.1	22.0				
Marble and stone work...	1914	44	20	30	2,622	281	1,871	470	10.7	71.4	17.9	3,651,595	376,646	2,765,284	509,665	10.3	75.7	14.0				
	1909	50	26	28	2,099	409	1,089	601	19.5	51.9	28.6	2,648,218	574,771	1,444,831	628,616	21.7	54.6	23.7				
Oil, cottonseed, and cake..	1914	4	145	4	4,212	32	4,139	41	0.8	98.3	1.0	32,714,801	161,660	32,335,422	217,719	0.5	98.8	0.7				
	1909	2	136	4	2,888	.....	2,840	148	.....	98.3	1.7	23,640,779	.....	23,462,265	1,178,514	.....	99.2	0.8
Printing and publishing..	1914	221	128	92	2,476	566	1,577	333	22.9	63.7	13.4	7,575,931	1,187,378	5,532,793	855,760	15.7	73.0	11.3				
	1909	235	123	84	2,395	529	1,549	317	22.1	64.7	13.2	6,400,241	982,651	4,791,909	625,681	15.4	74.9	9.8				
Turpentine and rosin.....	1914	254	42	206	9,118	3,449	835	4,834	37.8	9.2	53.0	4,007,590	1,694,126	447,636	2,465,828	36.8	9.7	53.5				
	1909	261	25	306	12,787	5,092	722	6,973	39.8	5.6	54.5	6,938,957	2,792,941	381,834	3,764,182	40.2	5.5	54.2				
Total for cities.....	1914	314	461	150	33,586	2,016	29,786	1,784	6.0	88.7	5.3	98,864,551	4,396,127	90,012,911	4,455,513	4.4	91.0	4.5				
ATHENS.....	1914	16	21	11	1,308	130	1,131	47	9.9	86.5	3.6	3,023,492	236,354	2,518,915	268,223	7.8	83.3	8.9				
ATLANTA.....	1914	133	219	71	12,585	982	10,533	1,070	7.8	83.7	8.5	41,278,927	2,290,954	30,981,998	2,005,975	5.5	89.6	4.0				
AUGUSTA.....	1914	27	38	8	4,925	171	4,728	26	3.5	96.0	0.5	12,138,224	320,065	11,689,700	128,459	2.6	96.3	1.1				
BRUNSWICK.....	1914	10	19	5	743	52	667	24	7.0	89.8	3.2	840,838	75,959	714,594	50,280	9.0	85.0	6.0				
COLUMBUS.....	1914	20	36	15	4,802	152	4,551	99	3.2	94.8	2.1	10,619,355	332,931	9,792,335	494,092	3.1	92.2	4.7				
MACON.....	1914	15	47	8	4,047	55	3,854	138	1.4	95.2	3.4	18,867,439	141,303	18,303,816	422,320	0.8	97.0	2.2				
ROME.....	1914	12	34	4	1,389	58	1,317	14	4.2	94.8	1.0	3,300,894	136,041	3,122,936	41,917	4.1	94.6	1.3				
SAVANNAH.....	1914	68	37	24	2,485	377	1,753	355	15.2	70.5	14.3	6,709,498	780,465	4,914,169	1,014,864	11.6	73.2	15.2				
WAYCROSS.....	1914	13	10	4	1,302	39	1,252	11	3.0	96.2	0.8	2,085,886	82,055	1,974,448	29,383	3.9	94.6	1.4				

¹ Includes the group "individuals."

² Includes the group "all others."

For all industries combined throughout the state, there was an increase during the decade in the number of establishments under each form of ownership. The greatest proportion of the establishments—nearly one-half of the total in 1914—is shown for those under individual ownership, but in value of products and average number of wage earners, those owned by corporations greatly predominate. For 1914, with but 29.2 per cent of the total number of establishments in the state, the corporations reported

87.4 per cent of the total value of products and 76.8 per cent of the total average number of wage earners; for 1909 and 1904 the corresponding proportions are somewhat less. For each of the 16 industries for which separate statistics are given the largest proportion of the total value of products is shown for establishments under corporate ownership, with the exception of turpentine and rosin, which reports only 9.7 per cent under this class of ownership. This condition prevailed also in 1914, as regards

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all industries combined, in each of the nine cities. Here, however, a greater proportion of the establishments are under corporate ownership.

Size of establishments.—Table 15 shows, for all industries combined, for 1914, 1909, and 1904, the num-

ber of establishments grouped according to the value of their products, and for each group the average number of wage earners, value of products, and value added by manufacture. The per cent distribution of the items constituting each total is also given.

Table 15 VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1914	1909	1904	1914	1909	1904	1914	1909	1904	1914	1909	1904
	1914	1909	1904	1914	1909	1904	1914	1909	1904	1914	1909	1904
All classes.....	4,639	4,792	3,219	104,461	104,588	92,749	\$253,270,511	\$202,863,262	\$151,040,455	\$93,181,902	\$85,893,498	\$67,415,951
Less than \$5,000.....	1,861	1,918	941	5,359	5,303	2,299	4,447,032	4,356,414	2,385,888	3,136,020	3,100,327	1,761,109
\$5,000 to \$20,000.....	1,508	1,624	1,158	13,668	17,719	13,208	14,926,602	16,813,566	12,675,263	9,370,060	11,583,613	8,748,189
\$20,000 to \$100,000.....	739	799	768	15,363	20,431	23,492	33,793,262	34,954,524	32,479,382	14,609,896	17,613,878	17,761,551
\$100,000 to \$1,000,000.....	502	433	342	53,515	50,207	45,988	143,239,055	112,684,673	82,835,728	49,125,965	43,539,772	34,009,584
\$1,000,000 and over.....	29	18	10	16,556	10,928	7,762	56,864,560	34,054,085	20,664,194	16,939,961	10,055,908	5,135,518
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	40.1	40.0	29.2	5.1	5.1	2.5	1.8	2.1	1.6	3.4	3.6	2.6
\$5,000 to \$20,000.....	32.5	33.9	36.0	13.1	16.9	14.2	5.9	8.3	8.4	10.1	13.5	13.0
\$20,000 to \$100,000.....	15.9	16.7	23.9	14.7	19.5	25.3	13.3	17.2	21.5	15.7	20.5	26.3
\$100,000 to \$1,000,000.....	10.8	9.0	10.6	51.2	48.0	49.6	56.6	55.5	54.8	52.7	50.7	50.4
\$1,000,000 and over.....	0.6	0.4	0.3	15.8	10.4	8.4	22.4	16.8	13.7	18.2	11.7	7.6

For 1914, 531 establishments, or 11.4 per cent of the total number in the state, each reported products exceeding \$100,000 in value, as compared with 451, or 9.4 per cent of the total, for 1909, and 352, or 10.9 per cent, for 1904. The output also increased in value, the proportion of the total being 68.5 per cent in 1904 to 72.3 per cent in 1909 and 79 per cent in 1914. For 1914 these establishments reported 67 per cent of the total average number of wage earners for

the state and 70.9 per cent of the total value added by manufacture. In the same year the small establishments—those having products less than \$5,000 in value—although representing 40.1 per cent of the total number of establishments, reported only 1.8 per cent of the total value of products.

Table 16 gives, for 1914 and 1909, for eight of the more important industries, a classification similar to that presented in Table 15.

Table 16 INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1914	1909	Per cent distribution.	1914	1909	Per cent distribution.	1914	1909	Per cent distribution.	1914	1909	Per cent distribution.
	1914	1909	1914 1909	1914	1909	1914 1909	1914	1909	1914 1909	1914	1909	1914 1909
COTTON GOODS.....	118	116	100.0 100.0	30,719	27,803	100.0 100.0	\$59,982,008	\$48,036,817	100.0 100.0	\$18,772,434	\$15,968,078	100.0 100.0
Less than \$5,000.....	11	12	9.3 10.3	491	504	1.6 1.8	731,701	632,517	1.2 1.3	185,730	198,331	1.0 1.2
\$5,000 to \$20,000.....	93	95	78.8 81.9	19,328	18,860	62.9 67.8	36,660,830	31,821,398	61.1 66.2	11,163,232	10,453,428	59.5 65.4
\$20,000 to \$100,000.....	14	9	11.9 7.8	10,900	8,439	35.5 30.4	22,589,477	15,582,902	37.7 32.4	7,423,472	5,336,319	39.5 33.4
\$100,000 and over.....	14	9	11.9 7.8	10,900	8,439	35.5 30.4	22,589,477	15,582,902	37.7 32.4	7,423,472	5,336,319	39.5 33.4
FERTILIZERS.....	230	110	100.0 100.0	3,833	2,770	100.0 100.0	29,045,903	16,800,301	100.0 100.0	7,825,983	5,856,150	100.0 100.0
Less than \$5,000.....	6	2	2.6	3	0.1	0.1	25,252	0.1	0.1	7,026	0.1	0.1
\$5,000 to \$20,000.....	37	22	16.1 21.8	256	2.2	2.0	311,921	1.6	1.9	64,280	1.6	2.1
\$20,000 to \$100,000.....	116	48	50.4 43.6	592	313	15.4 11.3	5,710,332	2,188,146	19.7 13.0	1,224,244	508,010	15.6 8.7
\$100,000 and over.....	71	38	30.9 34.5	3,155	2,401	82.3 86.7	22,851,881	14,300,234	78.7 85.1	6,470,692	5,283,854	82.7 90.2
FLOUR-MILL AND GRISTMILL PRODUCTS.....	128	105	100.0 100.0	367	386	100.0 100.0	6,083,760	7,999,912	100.0 100.0	829,580	1,271,375	100.0 100.0
Less than \$5,000.....	30	26	23.4 24.8	28	24	7.6 6.2	96,846	82,068	1.6 1.0	19,803	14,105	2.4 1.1
\$5,000 to \$20,000.....	70	34	54.7 32.4	86	46	23.4 11.9	625,894	424,429	10.3 5.3	123,556	59,405	14.9 4.7
\$20,000 to \$100,000.....	19	28	14.8 26.7	56	56	15.3 14.5	784,398	979,532	12.9 12.2	91,280	129,060	11.0 10.2
\$100,000 and over.....	9	17	7.0 16.2	197	260	53.7 67.4	4,576,622	6,513,883	75.2 81.4	594,941	1,068,805	71.7 84.1
FOUNDRY AND MACHINE-SHOP PRODUCTS.....	116	107	100.0 100.0	2,648	2,892	100.0 100.0	5,829,907	5,808,152	100.0 100.0	3,270,783	3,146,493	100.0 100.0
Less than \$5,000.....	33	25	28.4 23.4	51	41	1.9 1.4	92,781	60,306	1.6 1.0	68,063	42,349	2.1 1.3
\$5,000 to \$20,000.....	37	34	31.9 31.8	238	200	9.0 6.9	404,000	366,298	6.9 6.3	2,767,357	2,301,613	8.6 7.3
\$20,000 to \$100,000.....	35	31	30.2 29.0	840	718	31.7 24.8	1,554,483	1,385,449	26.7 23.9	969,127	826,983	29.6 26.3
\$100,000 to \$1,000,000.....	11	17	9.5 15.9	1,519	1,933	57.4 66.8	3,996,099	3,996,099	64.8 68.8	1,951,437	2,046,548	59.7 65.0
LUMBER AND TIMBER PRODUCTS.....	1,588	1,826	100.0 100.0	18,196	22,257	100.0 100.0	22,114,995	24,632,093	100.0 100.0	12,803,996	16,127,490	100.0 100.0
Less than \$5,000.....	983	1,088	61.9 59.5	2,750	3,260	15.1 14.6	2,084,199	2,261,753	9.4 9.2	1,556,923	1,665,269	12.2 10.3
\$5,000 to \$20,000.....	423	501	26.6 27.4	3,857	4,957	21.2 22.3	4,017,081	4,823,341	18.2 19.6	2,767,357	3,551,444	21.5 22.0
\$20,000 to \$100,000.....	123	182	7.7 10.0	3,667	6,183	20.2 27.8	5,280,353	7,462,812	23.9 30.3	2,707,564	4,654,046	21.1 28.9
\$100,000 to \$1,000,000.....	59	57	3.7 3.1	7,922	7,857	43.5 35.3	10,733,362	10,084,187	48.5 40.9	5,782,152	6,256,731	45.2 38.8
OIL, COTTONSEED, AND CAKE..	153	142	100.0 100.0	4,212	2,888	100.0 100.0	32,714,801	23,640,779	100.0 100.0	5,478,881	4,200,827	100.0 100.0
Less than \$5,000.....	6	5	3.9 3.5	24	20	0.6 0.7	65,512	69,982	0.2 0.3	16,741	12,696	0.3 0.3
\$5,000 to \$20,000.....	46	74	30.1 52.1	542	837	12.9 29.0	2,775,185	4,492,812	8.5 19.0	479,293	1,025,309	8.7 24.4
\$20,000 to \$100,000.....	101	63	66.0 44.4	3,646	2,031	86.6 70.3	29,874,103	19,077,985	91.3 80.7	4,982,847	3,162,822	90.9 75.3

¹ Includes the group "\$5,000 to \$20,000."

² Includes the group "less than \$5,000."

³ Includes the group "\$1,000,000 and over."

Table 16—Continued.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
INDUSTRY AND VALUE OF PRODUCT.	1914	1909	Per cent distribution.		1914	1909	Per cent distribution.		1914	1909	Per cent distribution.		1914	1909	Per cent distribution.	
			1914	1909			1914	1909			1914	1909			1914	1909
PRINTING AND PUBLISHING...	441	442	100.0	100.0	2,476	2,395	100.0	100.0	\$7,575,931	\$6,400,241	100.0	100.0	\$5,603,577	\$4,812,466	100.0	100.0
Less than \$5,000.....	252	274	57.1	62.0	367	405	14.8	16.9	622,005	624,302	8.2	9.8	506,436	498,837	9.0	10.4
\$5,000 to \$20,000.....	129	116	29.3	26.2	510	534	20.6	22.3	1,183,215	1,108,837	15.6	17.3	941,248	892,067	16.8	18.5
\$20,000 to \$100,000.....	46	41	10.4	9.3	729	704	29.4	29.4	1,964,168	1,808,670	25.9	28.3	1,423,583	1,328,892	25.4	27.6
\$100,000 to \$1,000,000.....	14	11	3.2	2.5	870	752	35.1	31.4	3,806,543	2,858,432	50.3	44.7	2,732,310	2,092,670	48.8	43.5
TURPENTINE AND ROSIN...	562	592	100.0	100.0	9,118	12,787	100.0	100.0	4,607,590	6,938,957	100.0	100.0	3,434,960	5,679,314	100.0	100.0
Less than \$5,000.....	198	107	35.2	18.1	1,540	847	16.9	6.6	617,463	358,588	13.4	5.2	452,545	280,793	13.2	5.1
\$5,000 to \$20,000.....	333	416	59.3	70.3	6,141	8,696	67.4	68.0	3,105,703	4,604,758	67.4	66.4	2,292,479	3,750,659	66.7	66.1
\$20,000 to \$100,000.....	31	69	5.5	11.7	1,437	3,244	15.8	25.4	884,424	1,975,611	19.2	28.5	689,936	1,632,862	20.1	23.8

Two of the eight industries given in the preceding table—lumber and timber and printing and publishing—show decreases in the number of establishments reporting products under \$5,000 in value. In establishments having products valued at \$100,000 or over there was an increase over 1909 in the average number of wage earners employed, value of products, and value

added by manufacture for cotton goods; fertilizers; and oil, cottonseed, and cake. The lumber industry shows an increase in wage earners and value of products.

Table 17 presents, for 1914, for all industries combined in each of the nine cities having more than 10,000 inhabitants, statistics similar to those given in Table 16 for the state as a whole.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ATHENS.....	48	1,308	100.0	\$3,023,492	100.0	\$1,082,085	100.0
Less than \$5,000.....	7	6	0.4	15,890	0.5	11,536	1.1
\$5,000 to \$20,000.....	18	115	8.8	219,999	7.3	135,647	12.5
\$20,000 to \$100,000.....	16	210	16.1	631,840	20.9	314,013	29.0
\$100,000 and over.....	7	977	74.7	2,155,763	71.3	620,889	57.4
ATLANTA.....	423	12,585	100.0	41,278,927	100.0	18,161,871	100.0
Less than \$5,000.....	90	124	1.0	235,965	0.6	176,172	1.0
\$5,000 to \$20,000.....	124	637	5.1	1,401,552	3.4	937,720	5.2
\$20,000 to \$100,000.....	128	2,440	19.4	6,192,753	15.0	3,135,889	17.3
\$100,000 to \$1,000,000.....	75	6,040	48.0	21,306,326	51.6	8,758,833	48.2
\$1,000,000 and over.....	6	3,344	26.5	12,142,331	29.4	5,153,257	28.3
AUGUSTA.....	73	4,925	100.0	12,138,224	100.0	3,606,023	100.0
Less than \$5,000.....	12	14	0.3	49,642	0.4	22,114	0.6
\$5,000 to \$20,000.....	19	83	1.7	184,533	1.5	92,552	2.6
\$20,000 to \$100,000.....	16	372	7.5	709,080	5.8	356,092	9.9
\$100,000 and over.....	26	4,456	90.5	11,194,969	92.2	3,135,265	86.9
BRUNSWICK.....	34	743	100.0	840,833	100.0	477,291	100.0
Less than \$5,000.....	7	14	1.9	19,000	2.3	12,217	2.6
\$5,000 to \$20,000.....	18	114	15.3	202,045	24.0	140,273	29.4
\$20,000 to \$100,000.....	9	615	82.8	619,788	73.7	324,801	68.0
COLUMBUS.....	71	4,802	100.0	10,619,358	100.0	4,251,456	100.0
Less than \$5,000.....	10	10	0.2	26,293	0.2	16,507	0.4
\$5,000 to \$20,000.....	27	165	3.4	283,212	2.7	157,912	3.7
\$20,000 to \$100,000.....	16	305	6.4	726,548	6.8	369,663	8.7
\$100,000 and over.....	18	4,322	90.0	9,583,305	90.3	3,707,374	87.2
MACON.....	70	4,047	100.0	\$18,867,439	100.0	\$4,842,059	100.0
Less than \$5,000.....	4	3	0.1	7,600	(3)	5,185	0.1
\$5,000 to \$20,000.....	20	104	2.6	226,703	1.2	136,116	2.8
\$20,000 to \$100,000.....	20	446	11.0	1,115,208	5.9	519,740	10.7
\$100,000 and over.....	26	3,494	86.3	17,517,928	92.9	4,181,018	86.4
ROME.....	50	1,389	100.0	3,300,894	100.0	1,094,664	100.0
Less than \$5,000.....	9	14	1.0	26,818	0.8	15,502	1.4
\$5,000 to \$20,000.....	16	79	5.7	153,234	4.6	92,746	8.5
\$20,000 to \$100,000.....	14	268	19.3	539,373	16.3	322,836	29.5
\$100,000 to \$1,000,000.....	11	1,028	74.0	2,581,469	78.2	663,580	60.6
SAVANNAH.....	129	2,485	100.0	6,709,498	100.0	3,309,320	100.0
Less than \$5,000.....	28	47	1.9	75,514	1.1	54,088	1.6
\$5,000 to \$20,000.....	52	296	11.9	571,281	8.5	308,435	9.3
\$20,000 to \$100,000.....	31	537	21.6	1,290,003	19.2	691,630	20.9
\$100,000 to \$1,000,000.....	18	1,605	64.6	4,772,700	71.1	2,255,167	68.2
WAYCROSS.....	27	1,302	100.0	2,085,886	100.0	1,045,066	100.0
Less than \$5,000.....	7	12	0.9	18,254	0.9	13,560	1.3
\$5,000 to \$20,000.....	14	55	4.2	128,443	6.2	81,367	7.8
\$20,000 and over.....	6	1,235	94.9	1,939,189	92.9	950,139	90.9

¹ Includes the group "\$1,000,000 and over."

² Includes the group "\$100,000 to \$1,000,000."

³ Less than one-tenth of 1 per cent.

The same general condition is found in the cities as that which prevails throughout the state, namely, a preponderance as to number of wage earners, value of products, and value added by manufacture for establishments having products valued at \$100,000 and over. The highest percentages of total value of products reported by establishments in this respect—92.2, 90.3, and 92.9—appear for Augusta, Columbus, and Macon, respectively; and the lowest, 71.1, for Savannah.

Table 18 shows the size of establishments in 1914 as measured by the number of wage earners employed. The figures given are for the state as a whole, for 17 of the more important industries, and for each of the nine cities having more than 10,000 inhabitants. Table 19 presents, for 1914, percentages based on the figures in Table 18, together with similar percentages for 1909 with reference to all industries combined and for individual industries in the state as a whole.

Table 18

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—							
			No wage earners.		1 to 5 wage earners.		6 to 20 wage earners.		21 to 50 wage earners.	
	Estab-lish-ments.	Wage earners (average number).	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.
All industries.....	4,639	104,461	168	2,349	5,967	1,281	14,944	443	14,180	
Agricultural implements.....	18	577	.....	10	28	2	27	3	73	
Bread and other bakery products.....	107	726	5	69	186	26	292	5	124	
Brick, tile, pottery, and other clay products.....	67	1,907	3	24	65	12	133	14	488	
Carriages and wagons and materials.....	65	955	1	29	87	24	297	6	179	
Cars and general shop construction and repairs by steam-railroad companies.....	34	6,943	.....	3	12	7	87	8	283	
Clothing, men's, including shirts.....	21	1,303	.....	1	5	5	57	4	122	
Cotton goods.....	118	30,719	.....	1	4	.....	.....	6	189	
Fertilizers.....	230	3,833	2	133	397	49	526	22	730	
Foundry and machine-shop products.....	116	2,648	5	50	139	34	386	14	447	
Furniture.....	34	1,365	.....	8	24	7	94	9	281	
Hosiery and knit goods.....	22	3,468	.....	.....	.....	1	13	4	165	
Ice, manufactured.....	74	890	.....	36	123	28	316	6	168	
Lumber and timber products.....	1,588	18,196	14	1,003	2,456	435	4,593	73	2,524	
Marble and stone work.....	100	2,622	1	47	136	29	321	12	395	
Oil, cottonseed, and cake.....	153	4,212	.....	12	54	64	882	57	1,884	
Printing and publishing.....	441	2,476	84	282	658	48	497	18	542	
Turpentine and rosin.....	562	9,118	6	83	265	344	4,580	118	3,481	
All other industries.....	889	12,503	47	558	1,328	166	1,843	64	2,105	
Total for cities.....	925	33,586	79	332	956	256	2,895	118	3,835	
ATHENS.....	48	1,308	3	16	43	19	194	6	185	
ATLANTA.....	423	12,585	51	148	411	108	1,287	56	1,811	
AUGUSTA.....	73	4,925	3	29	87	11	142	11	417	
BRUNSWICK.....	34	743	1	15	42	13	148	1	29	
COLUMBUS.....	71	4,802	4	25	78	20	219	9	255	
MACON.....	70	4,047	4	14	52	18	213	16	506	
ROME.....	50	1,389	3	18	51	14	173	6	171	
SAVANNAH.....	129	2,485	8	50	141	46	466	13	451	
WAYCROSS.....	27	1,302	2	17	51	7	73	.....	.....

Table 18—Continued.

INDUSTRY AND CITY.	ESTABLISHMENTS EMPLOYING—									
	51 to 100 wage earners.		101 to 250 wage earners.		251 to 500 wage earners.		501 to 1,000 wage earners.		Over 1,000 wage earners.	
	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.
All industries.....	191	13,880	137	21,240	44	14,941	21	12,979	5	6,330
Agricultural implements.....	1	76	2	373	.....	.....	.....	.....	.....	.....
Bread and other bakery products.....	2	124	.....	.....	.....	.....	.....	.....	.....	.....
Brick, tile, pottery, and other clay products.....	9	586	5	635	.....	.....	.....	.....	.....	.....
Carriages and wagons and materials.....	4	286	1	106	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	1	94	5	872	7	2,376	1	930	2	2,289
Clothing, men's, including shirts.....	8	580	3	539	.....	.....	.....	.....	.....	.....
Cotton goods.....	29	2,372	37	5,762	27	9,076	15	9,275	3	4,041
Fertilizers.....	17	1,208	7	972	.....	.....	.....	.....	.....	.....
Foundry and machine-shop products.....	6	392	7	1,284	.....	.....	.....	.....	.....	.....
Furniture.....	7	533	3	433	.....	.....	.....	.....	.....	.....
Hosiery and knit goods.....	7	672	7	1,224	1	252	2	1,142	.....	.....
Ice, manufactured.....	3	123	1	160	.....	.....	.....	.....	.....	.....
Lumber and timber products.....	28	2,086	30	4,529	4	1,448	1	560	.....	.....
Marble and stone work.....	3	238	6	840	2	692	.....	.....	.....	.....
Oil, cottonseed, and cake.....	19	1,254	1	138	.....	.....	.....	.....	.....	.....
Printing and publishing.....	7	489	2	290	.....	.....	.....	.....	.....	.....
Turpentine and rosin.....	11	792	.....	.....	.....	.....	.....	.....	.....	.....
All other industries.....	29	1,975	20	3,083	3	1,097	2	1,072	.....	.....
Total for cities.....	75	5,343	43	6,694	10	3,785	8	5,207	4	4,871
ATHENS.....	1	71	2	315	1	500	.....	.....	.....	.....
ATLANTA.....	37	2,727	18	2,803	2	573	1	643	2	2,350
AUGUSTA.....	11	846	2	382	3	1,201	3	1,850	.....	.....
BRUNSWICK.....	2	128	2	396	.....	.....	.....	.....	.....	.....
COLUMBUS.....	5	300	3	628	2	708	2	1,261	1	1,843
MACON.....	9	650	6	821	1	352	2	1,453	.....	.....
ROME.....	4	267	5	727	.....	.....	.....	.....	.....	.....
SAVANNAH.....	6	354	5	622	1	451	.....	.....	.....	.....
WAYCROSS.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1,178

There were 168 establishments for which no wage earners are shown. In these establishments the work is done by proprietors, firm members, or persons

classified as salaried employees. For some of them the number of wage earners employed was so small or the term of employment so short that in computing

the average, as described in the "Explanation of terms," the number was less than one person and the establishment was classed as one having "no wage earners." The small establishments—those employing from 1 to 20 wage earners—formed 78.2 per cent of the total for the state but gave employment to only 20 per cent of the total wage earners reported. The

groups of establishments having more than 100 wage earners, although representing only 4.5 per cent of the total number of establishments in the state, gave employment to 53.1 per cent of the total wage earners.

Among the cities the highest percentages of the total number of wage earners are reported by establishments employing more than 50 wage earners.

Table 19

INDUSTRY AND CITY.	Cen- sus year.	PER CENT OF TOTAL AVERAGE NUMBER OF WAGE EARNERS IN ESTABLISHMENTS EMPLOYING SPECIFIED NUMBER.							
		1 to 5	6 to 20	21 to 50	51 to 100	101 to 250	251 to 500	501 to 1,000	Over 1,000
All industries.....	1914 1909	5.7 5.3	14.3 15.9	13.6 17.3	13.3 14.7	20.3 19.3	14.3 13.6	12.4 10.0	6.1 3.9
Agricultural implements.....	1914 1909	4.8 2.0	4.7 8.7	12.6 9.8	13.2 13.4	64.6 66.1	.....	.....	.....
Bread and other bakery prod- ucts.....	1914 1909	25.6 36.4	40.2 52.7	17.1	17.1 10.8	.....	.....	.....	.....
Brick, tile, pottery, and other clay products.....	1914 1909	3.4 2.8	7.0 15.2	25.6 35.1	30.7 24.3	33.3 22.6	.....	.....	.....
Carriages and wagons and ma- terials.....	1914 1909	9.1 10.2	31.1 29.0	18.7 33.6	29.9 27.2	11.1.....	.....	.....	.....
Cars and general shop construc- tion and repairs by steam-rail- road companies.....	1914 1909	0.2 0.3	1.2 1.3	4.1 3.2	1.4 2.8	12.6 12.6	34.2 28.0	13.4 51.9	33.0
Clothing, men's, including shirts	1914 1909	0.4 0.4	4.4 10.0	9.4 10.7	44.5 32.5	41.4 24.8	21.6.....	.....	.....
Cotton goods.....	1914 1909	(1) .....	..... 0.2	0.6 1.0	7.7 8.4	18.8 22.2	29.5 27.6	30.2 26.1	13.2 14.5
Fertilizers.....	1914 1909	10.4 5.4	13.7 9.5	..... 18.3	19.0 39.5	31.5 27.4	25.4.....	.....	.....
Foundry and machine-shop products.....	1914 1909	5.2 4.3	14.6 13.0	16.9 16.0	14.8 19.6	48.5 37.5	9.7.....	.....	.....
Furniture.....	1914 1909	1.8 2.5	6.9 7.0	20.6 34.1	39.0 16.2	31.7 40.2	.....	.....	.....
Hosiery and knit goods.....	1914 1909	..... .....	0.4	4.8 3.2	19.4 27.4	35.3 34.1	7.3 35.3	32.9.....	.....
Ice, manufactured.....	1914 1909	13.8 17.6	35.5 67.3	18.9 10.5	13.8 14.6	18.0.....	.....	.....	.....
Lumber and timber products...	1914 1909	13.5 11.9	25.2 26.6	13.9 15.2	11.5 16.2	24.9 20.8	8.0 9.3	3.1.....	.....
Marble and stone work.....	1914 1909	5.2 7.5	12.2 14.7	15.1 18.2	9.1 23.2	32.0 36.4	26.4.....	.....	.....
Oil, cottonseed, and cake.....	1914 1909	1.3 2.7	20.9 32.3	44.7 51.4	29.8 9.0	3.3 4.6	.....	.....	.....
Printing and publishing.....	1914 1909	26.0 24.7	20.1 25.6	21.9 23.1	19.7 15.0	11.7 11.6	.....	.....	.....
Turpentine and rosin.....	1914 1909	2.9 1.0	50.2 35.3	38.2 51.8	8.7 11.1	.....	0.8.....	.....	.....
All other industries.....	1914 1909	10.6 9.6	14.7 17.2	22.7 18.0	19.6 21.7	22.8 23.3	1.0 10.1	8.6.....	.....
Total for cities.....	1914	2.8	8.6	11.4	15.9	19.9	11.3	15.5	14.5
ATHENS.....	1914	3.3	14.8	14.1	5.4	24.1	38.2	.....	.....
ATLANTA.....	1914	3.2	10.1	14.4	21.7	22.3	4.6	5.1	18.7
AUGUSTA.....	1914	1.8	2.9	8.5	17.2	7.7	24.4	37.6	.....
BRUNSWICK.....	1914	5.6	19.9	3.9	17.2	53.3	.....	.....	.....
COLUMBUS.....	1914	1.6	4.6	5.5	6.2	13.1	14.7	26.3	28.0
MACON.....	1914	1.3	5.3	12.5	16.1	20.3	8.7	35.9	.....
ROME.....	1914	3.7	12.4	12.3	19.2	52.3	.....	.....	.....
SAVANNAH.....	1914	5.7	18.8	18.1	14.2	25.0	18.1	.....	.....
WAYCROSS.....	1914	3.9	5.6	.....	.....	.....	.....	90.5	.....

¹ Less than one-tenth of 1 per cent.

Engines and power.—Table 20 presents, for 1914, 1909, and 1904, for all industries combined, the number and total horsepower of engines or motors, classified according to their character, employed in gener-

ating power (including electric motors operated by purchased current). It also shows separately the number and horsepower of electric motors operated by current generated in the establishments reporting.

Table 20

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
				Amount.			Per cent distribution.		
				1914	1909	1904	1914	1909	1904
Primary power, total.....	9,244	6,323	2,839	357,403	298,241	220,419	100.0	100.0	100.0
Owned.....	4,929	4,600	2,839	280,672	272,928	212,657	78.5	91.5	96.5
Steam engines and turbines ¹	3,439	4,011	2,519	245,811	240,800	183,721	68.8	80.7	83.4
Internal-combustion engines.....	695	418	118	7,032	3,380	632	1.9	1.1	0.3
Water wheels, turbines, and motors.....	795	231	202	27,829	28,748	28,304	7.8	9.7	12.8
Rented.....	4,315	1,663	.....	76,731	25,313	7,762	21.5	8.5	3.5
Electric.....	4,315	1,663	(2)	76,458	23,890	6,464	21.4	8.0	2.9
Other.....	.....	.....	.....	273	1,423	1,298	0.1	0.5	0.6
Electric.....	5,425	2,492	(2)	103,140	44,264	15,556	100.0	100.0	100.0
Rented.....	4,315	1,663	.....	76,458	23,890	6,464	74.1	54.0	41.6
Generated by establishments reporting.....	1,110	829	(2)	26,682	20,374	9,092	25.9	46.0	58.4

¹ Figures for horsepower include for 1909 and 1904 the amount reported under the head of "other" owned power.

² Not reported.

This table shows an increase in primary power amounting to 59,162 horsepower, or 19.8 per cent, from 1909 to 1914, due largely to the increase in rented power. The use of rented power, now almost wholly electric, has increased since 1904, when it rep-

resented only 3.5 per cent of the total primary power reported. In 1909 the amount of rented power had increased to 8.5 per cent of the total and in 1914, to 21.5 per cent. The increase in the use of electric motors run by current generated within the same

establishment has not kept pace with those rented. The power of motors operated by current generated in the same establishments represented 58.4 per cent of the total electric power in 1904, but only 25.9 per cent in 1914.

In spite of the increase in rented power, owned power increased by 32 per cent during the decade 1904-1914 and by 2.8 per cent during the last five-year period.

Fuel.—Closely related to the subject of power employed in manufactures is that of the fuel consumed in generating this power or otherwise used in the manufacturing processes.

Table 21 gives, for 1914, the quantity of each kind of fuel used, for which data were obtained, for all industries combined and for certain selected industries separately in the state as a whole, and for all industries combined in each city.

Table 21

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 lbs.).	Oil, including gasoline (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 lbs.).	Bituminous (tons, 2,000 lbs.).			
All industries.....	3,433	1,419,238	30,315	82,638	35,150
Agricultural implements.....	4	4,720	1,531	9	.....
Brick, tile, terra-cotta, and other clay products.....	.....	201,266	238	61	.....
Carriages and wagons and materials.....	25	3,414	189	921	12
Cars and general shop construction and repairs by steam railroad companies.....	139	73,523	474	5,138	11,773
Cotton goods.....	.....	364,642	.....	674	.....
Fertilizers.....	.....	22,807	20	1,564	334
Flour-mill and gristmill products.....	.....	8,305	.....	814	.....
Food preparations.....	.....	32,105	.....	27	10
Foundry and machine-shop products.....	322	16,311	9,149	926	785
Furniture.....	.....	5,362	165	62	75
Gas, illuminating and heating.....	24	81,131	6,300	66,341	.....
Hosiery and knit goods.....	.....	15,393	.....	21	250
Ice, manufactured.....	.....	132,344	.....	14	.....
Lumber and timber products.....	300	15,839	.....	582	22
Marble and stone work.....	1,136	25,655	3,076	249	.....
Oil, cottonseed, and cake.....	.....	179,107	267	186	.....
Printing and publishing.....	399	1,609	23	688	12,442
All other industries.....	1,084	235,705	8,883	4,364	9,447
Total for cities.....	1,626	439,845	20,328	70,017	34,491
ATHENS.....	48	11,123	148	16	988
ATLANTA.....	452	186,689	8,657	38,943	13,141
AUGUSTA.....	4	39,443	3,327	9,231	1,565
BRUNSWICK.....	.....	2,378	231	451	510
COLUMBUS.....	366	39,088	1,496	71	680
MACON.....	17	96,714	655	2,195	1,081
ROME.....	6	17,401	1,924	25	.....
SAVANNAH.....	720	38,036	3,870	16,204	16,526
WAYCROSS.....	13	8,973	20	2,881	.....

SPECIAL STATISTICS.

For certain industries the Census Bureau collects details regarding the quantities and cost of materials, the quantities and values of products, and other information for securing which no provision is made on the general schedule. Certain data of this character for seven important industries and also for power laundries are here presented.

Textiles.—The progress of the textile industries is indicated by the increase in the number of spindles, looms, and knitting machines. The following table shows the number of these machines used in the combined industries and in each of the three branches during 1914, 1909, and 1904.

MACHINE.	Census year.	Total.	Cotton goods, including cotton small wares.	Woolen, worsted, and felt goods, and wool hats.	Hosiery and knit goods.
Producing spindles.....	1914 1909 1904	2,092,834 1,794,111 1,344,889	2,045,082 1,751,547 1,318,573	23,996 24,772 19,964	23,756 17,792 6,352
Looms.....	1914 1909 1904	42,499 36,034 31,767	41,881 35,353 31,221	618 676 546	...............
Knitting machines.....	1914 1909 1904	4,699 3,530 1,677	..... ..... .....	..... ..... .....	4,699 3,530 1,677

The increases from 1909 to 1914 in the total number of the three principal kinds of machines used were as follows: 298,723, or 16.6 per cent, in producing spindles; 6,519, or 18.1 per cent, in looms; 1,169, or 33.1 per cent, in knitting machines.

During the preceding five years the total increase in producing spindles and knitting machines was considerably greater. During the five year period 1909-1914 the number of spindles shown for the three industries indicated an increase of 16.8 per cent for cotton goods, a decrease of 3.1 per cent for woolen and worsted goods, and an increase of 33.5 per cent in hosiery and knit goods. The gain shown in the number of looms used was 6,523, or 18.5 per cent, in cotton mills, while the number reported for woolen and worsted goods was approximately the same.

In addition to the number of spindles reported in connection with the census of manufactures, statistics of the number employed in all branches of the textile industry are reported monthly to the Bureau of the Census. The total number of cotton spindles in the state of Georgia for 1914, as compiled from these monthly reports, was 2,160,571, and of these, 2,130,840 were active some time during the year ending August 31.

Cotton manufactures.—In Table 23, on the following page, the materials and products of the cotton manufacturing industry are shown by kind, quantity, cost, and value for the three census years 1914, 1909, and 1904.

The quantity of raw cotton consumed in this industry shows a substantial increase from census to census; the measure of increase in 1909 over 1904 being 27.1 per cent and in 1914 over 1909, 15.3 per cent.

Table 23	1914	1909	1904
MATERIALS.			
Total cost.....	\$41,324,748	\$32,048,739	\$23,832,297
Cotton:			
Pounds.....	289,090,615	250,820,180	197,349,598
Cost.....	\$35,341,198	\$27,884,458	\$21,132,744
Cotton yarn, purchased:			
Pounds.....	2,231,836	429,063	595,403
Cost.....	\$435,084	\$84,782	\$117,755
Cotton waste, purchased:			
Pounds.....	6,956,231	8,201,342	3,067,157
Cost.....	\$550,600	\$310,055	\$202,291
Starch, cost.....	\$262,588	\$167,828	\$121,734
Chemicals and dyestuffs, cost.....	\$256,679	\$251,239	\$270,817
Fuel and rent of power, cost.....	\$1,381,243	\$1,020,210	\$674,825
All other materials, cost.....	\$3,097,356	\$2,330,161	\$1,306,131
PRODUCTS.			
Total value.....	\$60,137,353	\$48,036,817	\$35,174,248
Unbleached and bleached sheetings, shirtings, and muslins: ¹			
Square yards.....	312,675,717	263,509,923	231,970,915
Value.....	\$15,545,371	\$13,127,547	\$11,280,572
Ducks:			
Square yards.....	77,730,988	49,484,921	30,429,272
Value.....	\$11,448,884	\$6,640,339	\$3,669,472
Napped fabrics:			
Square yards.....	16,190,524	20,472,753	6,797,117
Value.....	\$1,316,680	\$1,700,757	\$591,435
Fancy weaves, total:			
Square yards.....	139,558,519	116,990,787	81,470,676
Value.....	\$10,946,330	\$8,256,017	\$6,222,302
Drills:			
Square yards.....	68,011,226	64,075,402	41,727,888
Value.....	\$5,087,859	\$4,378,103	\$2,809,105
Twill, satens, etc.—			
Square yards.....	15,353,897	5,246,064	(²)
Value.....	\$1,188,687	\$448,234	(²)
Other fancy weaves—			
Square yards.....	55,293,396	47,669,321	39,742,788
Value.....	\$4,669,784	\$3,429,680	\$3,413,197
Toweling and terry weaves:			
Square yards.....	14,836,281	12,264,366	4,057,247
Value.....	\$1,657,011	\$1,374,772	\$697,094
Yarns, for sale:			
Pounds.....	65,777,960	61,956,708	45,356,389
Value.....	\$13,274,864	\$11,971,488	\$8,620,720
Twines:			
Pounds.....	5,248,751	4,596,792	430,206
Value.....	\$1,130,918	\$830,522	\$72,614
Cotton waste, for sale:			
Pounds.....	19,173,934	19,684,927	16,162,249
Value.....	\$606,680	\$510,168	\$457,184
All other products, value.....	\$4,210,615	\$3,625,207	\$3,562,855

¹ Fabrics, the combined quantities and values of which are here brought into comparison with the 1914 figures, were designated at prior censuses as "plain cloths for printing and converting" and "brown or bleached sheetings and shirtings."

² Figures not available.

The increase in the cost of cotton was even more pronounced, being 32 per cent in 1909 and 26.7 per cent in 1914. Yarns purchased for material, while showing a slight decrease in 1909 from the quantity reported for 1904, shows an increase of 420.2 per cent for the five-year period 1909-1914.

Hosiery and knit goods.—Table 24 shows for this industry, for 1914, 1909, and 1904, the quantities and cost of materials and the quantities and value of products made.

In 1914 practically all the material used in this industry in Georgia consisted of raw cotton and cotton yarn, which together constituted 67.8 per cent of the total cost. In 1904 the quantity of raw cotton used was very small, but in 1909 it had increased to over four million pounds and this amount was more than doubled during the succeeding five years. The cost of this material also practically doubled during this period. The use of cotton yarn on the contrary decreased both in quantity and cost from 1904 to 1909, but there was a slight increase in both between 1909 and 1914, as compared with the increase in raw cotton.

In 1904 it constituted 79.5 per cent of the total cost of materials used, in 1909, 52.3 per cent, and in 1914, 38.5 per cent.

Table 24	1914	1909	1904
MATERIALS.			
Total cost.....	\$3,062,852	\$1,872,430	\$1,417,411
Cotton:			
Pounds.....	8,738,056	4,043,536	(¹)
Cost.....	\$897,452	\$456,956	(¹)
Cotton yarns, purchased:			
Pounds.....	5,086,521	4,886,428	6,606,954
Cost.....	\$1,180,263	\$978,805	\$1,127,123
Chemicals and dyestuffs, cost.....	\$101,877	\$64,558	\$48,290
Fuel and rent of power, cost.....	\$110,143	\$61,757	\$31,510
All other materials, cost.....	\$773,117	\$310,360	\$210,488
PRODUCTS.			
Total value.....	\$4,892,931	\$3,232,623	\$2,325,854
Cotton hose:			
Dozen pairs.....	2,515,163	1,226,235	602,388
Value.....	\$1,836,419	\$1,018,086	\$485,155
Cotton half hose:			
Dozen pairs.....	2,136,798	2,500,095	1,278,107
Value.....	\$1,582,129	\$1,370,926	\$780,390
Cotton shirts and drawers:			
Dozens.....	185,600	314,893	425,000
Value.....	\$396,715	\$573,020	\$803,112
All other products, value.....	\$1,077,668	\$270,591	\$257,197

¹ Included under "all other materials," to avoid disclosure of individual operations.

The product of the mills is very largely confined to cotton hosiery, which constituted 69.9 per cent of the total value of the output in 1914. The value of cotton shirts and drawers formed 8.1 per cent of the total in 1914, the balance consisting of a variety of articles, none of sufficient importance for a separate classification. The importance of cotton hosiery is increasing while that of shirts and drawers is declining. From 1904 to 1909 the output of the former practically doubled and from 1909 to 1914 the increase amounted to 925,631 dozen pairs, or 24.8 per cent. The cost from 1904 to 1909 increased at about the same ratio but the rate of increase during the latter period was nearly double the increase in quantity. From 1904 to 1909 there was a decrease in the quantity of shirts and drawers manufactured of 110,107 dozen, or 25.9 per cent, and from 1909 to 1914 of 129,293 dozen, or 41.1 per cent. In 1904 the value of shirts and drawers constituted 34.5 per cent of the total, in 1909, 17.7 per cent, and in 1914 but 8.1 per cent.

Oil, cottonseed, and cake.—The manufacture of cottonseed products is largely a local industry carried on in the cotton-growing districts. Georgia, which ranks second among the states in the growing of cotton, also ranks second in the manufacture of cottonseed products. Table 25 gives the quantity of cotton seed used for oil extraction and the quantities of the several crude products obtained for the census years 1914, 1909, 1904.

The statistics for the manufactures census relate to the crushing season of 1913-14—that is, to the handling of seed from the crop of 1913. The statistics cover the operations of all establishments which crushed cotton seed during the season, regardless of the extent to which they were engaged in other branches of in-

dustry. Furthermore, the crude products reported represent the total production derived from crushing cotton seed, whether sold as such or used as intermediate products in further processes of manufacture, such as the refining of oil and the mixing of fertilizer and feed.

Table 25

MATERIAL AND PRODUCT.	QUANTITY.		
	1914	1909	1904
Cotton seed crushed, tons (2,000 lbs.).....	864,680	594,070	368,996
Crude products manufactured:			
Oil, gallons.....	38,389,261	26,181,463	15,284,303
Meal and cake, tons (2,000 lbs.).....	404,702	261,717	151,011
Hulls, tons (2,000 lbs.).....	252,319	188,270	131,521
Linters, pounds.....	55,701,475	28,040,114	13,281,489

Georgia produced 16.4 per cent of the American cotton crop of 1913, reported 17.8 per cent of the total quantity of cotton seed used in the manufacture of cottonseed products, and contributed 19.9 per cent of the total production of oil. While the percentage of the oil production is considerably higher than the percentage of the seed crushed, it is due to the fact that the oil content of the seed grown in Georgia is higher than that of seed grown in the western section of the cotton belt.

The total quantity of cotton seed crushed increased from 271,833 tons in 1899 to 864,680 tons in 1914, or 218.1 per cent. Of the 155 mills reported in 1914 as crushing cotton seed, 14 crushed less than 1,000 tons each during the census year; 21 crushed 1,000 but less than 2,000 tons; 73 crushed 2,000 but less than 5,000 tons; 26 crushed 5,000 but less than 10,000 tons; 14 crushed 10,000 but less than 20,000 tons; and 7 crushed 20,000 tons and over.

The quantities of the various products obtained in 1914 per ton of seed, as received at the mill, were as follows: Crude oil, 44.4 gallons; cake and meal, 936 pounds; hulls, 584 pounds; and linters, 64 pounds. The ratios which the several products bore to the total weight of the seed when received at the mill were: Crude oil, 16.6 per cent; cake and meal, 46.8 per cent; hulls, 29.2 per cent; and linters, 3.2 per cent.

Fertilizers.—This industry ranks third among the manufacturing industries of Georgia, and the state ranked first among the states in 1914, 1909, and 1904, while it was sixth in 1899. In value of products it contributed 19 per cent of the total for this industry in the United States in 1914, 16.2 per cent in 1909, 16.8 per cent in 1904, and 7.6 per cent in 1899. In 1914 the value of products exceeded the combined value of the next two ranking states—Maryland and South Carolina. This table shows the quantity and value of the products for the three census years 1904, 1909, and 1914.

Inclusive of the fertilizers made by cottonseed-oil mills and a small production by establishments in other lines of manufacture, there was a total production in 1914 of 1,749,465 tons, valued at \$30,408,787,

as compared with 961,452 tons, valued at \$17,361,622, in 1909, an increase of 82 per cent in quantity and 75.1 per cent in value.

Table 26

	1914 ¹	1909 ¹	1904
Total value.....	\$29,045,903	\$16,800,301	\$9,461,415
Fertilizers:			
Tons.....	1,628,480	888,137	629,250
Value.....	\$27,792,982	\$15,908,284	\$9,242,836
Complete and ammoniated—			
Tons.....	1,035,992	595,105	423,365
Value.....	\$21,779,931	\$12,131,874	\$7,218,101
Superphosphates and concentrated phosphates—			
Tons.....	459,783	217,594	130,762
Value.....	\$4,138,243	\$2,546,635	\$1,390,437
All other—			
Tons.....	132,705	75,438	75,123
Value.....	\$1,874,808	\$1,229,775	\$634,298
All other products, value.....	\$1,252,921	\$892,017	\$218,579

¹ In addition, 119,567 tons of fertilizers, valued at \$2,607,298, in 1914, and 73,315 tons, valued at \$1,453,338, in 1909, were made by establishments engaged primarily in the manufacture of cottonseed oil and cake.

Flour-mill and gristmill products.—Table 27 shows the quantities and values of flour-mill and gristmill products for the last three censuses.

In 1914 corn meal was the most important product for this industry in Georgia, forming 49.5 per cent of the total value of products and 57.6 per cent in 1909, whereas in 1904 wheat flour predominated, the percentage of the total value of products being 45.8.

Table 27

	1914	1909	1904
Total value.....	\$6,083,760	\$7,999,912	\$8,178,926
Wheat flour:			
Barrels.....	348,421	415,220	671,899
Value.....	\$2,155,527	\$2,634,638	\$3,747,466
Corn meal and corn flour:			
Barrels.....	819,110	1,369,971	1,217,141
Value.....	\$3,012,837	\$4,609,764	\$3,193,061
Hominy and grits:			
Pounds.....	70,225	1,800	300,000
Value.....	\$1,411	\$54	\$5,000
Oatmeal:			
Pounds.....	51,675		
Value.....	\$1,291		
Bran and middlings:			
Tons.....	14,491		
Value.....	\$359,709	27,270	51,891
Feed and offal:			
Tons.....	19,015	\$703,032	\$1,167,519
Value.....	\$551,081		
All other cereal products, value.....		\$365	\$170
All other products, value.....	\$1,904	\$52,059	\$65,710

For the five-year period 1909–1914 there was a decrease in the quantity of wheat flour of 16.1 per cent and of corn meal, 40.2 per cent.

The equipment for the state reported for 1914 was 202 stands of rolls, 310 runs of stone, and 36 attrition mills.

Printing and publishing.—Table 28 shows the number and aggregate circulation per issue of the different publications in Georgia at the census years 1914, 1909, and 1904.

The number of daily publications increased two during the five-year period 1909 to 1914, but the number of publications having other periods of issue decreased, except in semiweeklies and triweeklies, which remained the same. The total circulation increased by 82,781, or 5.1 per cent, the semiweeklies and triweeklies, combined, leading with an increase of 204,586,

or 71.6 per cent. The circulation of the Sunday newspapers increased 87,069, or 50.6 per cent, and that of the dailies, 49,756, or 23.1 per cent. Of the dailies, 17, with a circulation of 160,835, were issued in the evening. The only foreign language publication was a weekly, printed in German.

Table 28 PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1914	1909	1904	1914	1909	1904
Total.....	351	357	318	1,709,343	1,626,562	924,545
Daily.....	29	27	26	265,416	215,660	178,904
Sunday.....	10	13	14	259,108	172,039	143,052
Semiweekly and triweekly.....	17	17	11	430,215	285,029	81,613
Weekly.....	241	240	233	363,121	423,897	371,274
Monthly.....	40	51	29	276,096	386,337	120,927
All other classes.....	18	3	5	55,417	143,000	28,775

¹ Includes publications as follows: 5 semimonthly, 1 bimonthly, 1 quarterly, and 1 semiannual.

Turpentine and rosin.—This, like the lumber industry, is dependent upon the forests of the state for its raw materials. The quantities and values of the different products for the census years 1914, 1909, and 1904 are shown in the following table:

Table 29	1914	1909	1904
Total value.....	\$4,607,590	\$6,938,957	\$7,705,643
Spirits of turpentine:			
Gallons.....	6,228,041	8,056,752	9,542,316
Value.....	\$2,489,145	\$3,556,965	\$4,795,331
Rosin:			
Barrels (280 pounds).....	621,306	904,103	1,104,968
Value.....	\$2,068,218	\$3,371,676	\$2,901,583
All other products, value.....	\$50,227	\$10,316	\$8,729

¹ Spirits of turpentine was reported in barrels of 51 gallons and rosin in barrels of 475 pounds in 1899 census. In this report turpentine is reported in gallons and rosin in barrels of 280 pounds.

The value of turpentine and rosin products have decreased 43.2 per cent since 1899, owing to the rapid depletion of the longleaf pine forests of the state. In 1914 the production of spirits of turpentine was 22.7 per cent less than in 1909, 34.7 per cent less than in 1904, and 59.3 per cent less than in 1899, while the output of rosin shows a decrease of 31.3 per cent as compared with 1909, 43.8 per cent as compared with 1904, and 61.5 per cent as compared with 1899.

The working unit in turpentine operations is called a crop, which consists of 10,500 boxes or cups. In 1914 there were 5,044 crops worked in the state, of which 810 crops were from virgin trees, 1,327 from yearling or second-year trees, 1,546 from third-year trees, and 1,361 from older trees; of these 2,496 were worked by the box system, and 2,548 by the cup process.

Laundries.—Statistics for power laundries are not included in the general tables or in the totals for manufacturing industries. Table 30, however, summarizes these statistics for Georgia for 1914 and 1909.

The table shows increases in all the items given, with the exception of proprietors and firm members. Establishments owned by individuals reported 15.8 per cent of the amount received for work done; those owned by corporations, 75.2 per cent; and those under other forms of ownership, 9 per cent.

Table 30

	POWER LAUNDRIES.		Per cent of in- crease, ¹ 1909- 1914.
	Number or amount.		
	1914	1909	
Number of establishments.....	43	42	.....
Persons engaged.....	2,008	1,525	31.7
Proprietors and firm members.....	35	37	.....
Salaried employees.....	197	156	26.3
Wage earners (average number).....	1,776	1,332	33.3
Primary horsepower.....	1,773	1,180	50.3
Capital.....	\$1,044,728	\$654,756	59.6
Salaries and wages.....	778,966	516,075	50.9
Salaries.....	207,229	131,877	57.1
Wages.....	571,737	384,198	48.8
Paid for contract work.....	1,895	.....	.....
Rent and taxes.....	49,152	31,677	55.2
Cost of materials.....	335,841	191,654	75.2
Amount received for work done.....	1,632,221	1,006,724	62.1

¹ Percentages are omitted where base is less than 100.

Table 31 shows, for 1914 and 1909, the number of wage earners employed in the laundries on the 15th of each month, or the nearest representative day, and the percentage which this number represents of the greatest number employed in any month of the same year.

Table 31

MONTH.	WAGE EARNERS.			
	Number.		Per cent of maximum.	
	1914	1909	1914	1909
January.....	1,742	1,292	93.4	94.5
February.....	1,756	1,285	94.1	94.0
March.....	1,762	1,303	94.4	95.3
April.....	1,757	1,318	94.2	96.4
May.....	1,793	1,325	96.1	96.9
June.....	1,831	1,342	98.1	98.2
July.....	1,866	1,366	100.0	99.9
August.....	1,834	1,367	98.3	100.0
September.....	1,788	1,366	95.8	99.9
October.....	1,746	1,351	93.6	98.8
November.....	1,731	1,342	92.8	98.2
December.....	1,707	1,323	91.5	96.8

Table 32 gives statistics as to kinds and amounts of power used in the laundries of the state in 1914 and 1909, together with percentages of increase for the five-year period.

Table 32 KIND.	NUMBER OF ENGINES OR MOTORS.		HORSEPOWER.		
			Amount.		Per cent of in- crease, 1909- 1914.
	1914	1909	1914	1909	
Primary power, total.....	91	52	1,773	1,180	50.3
Owned—Steam.....	40	40	1,544	1,101	40.2
Rented—Electric.....	51	12	229	79	.....
Electric—Generated in establishments reporting.....	40	33	104	80	.....

¹ Includes other rented power.

Table 33 shows the kinds and quantities of fuel used in the laundries, as reported at the censuses of 1914 and 1909, with percentages of increase.

Table 33 KIND.	Unit.	QUANTITY.		Per cent of in- crease, ¹ 1909- 1914.
		1914	1909	
Anthracite coal.....	Tons, 2,000 lbs.....	544	310	75.5
Bituminous coal.....	Tons, 2,000 lbs.....	18,026	12,279	46.8
Coke.....	Tons, 2,000 lbs.....	744	204	264.7
Oil.....	Barrels.....	64	212	—69.8
Gas.....	1,000 cubic feet.....	2,698	1,695	59.2

¹ A minus sign (—) denotes decrease.

MANUFACTURES—GEORGIA.

GENERAL TABLES.

Table 34 gives for 1914, 1909, and 1904 the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for selected industries in the state and in the cities having 50,000 inhabitants or more; and for the cities having more than 10,000 inhabitants, similar data for all industries combined.

Table 35 presents for 1914, in the state as a whole and in cities with 50,000 inhabitants or more, statistics in detail for each industry that can be shown without the disclosure of the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having more than 10,000 inhabitants.

TABLE 34.—COMPARATIVE SUMMARY FOR 1914, 1909, AND 1904.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1914	4,639	104,461	357,403	\$38,128	\$160,089	\$253,271	Furniture.....	1914	34	1,365	2,967	\$509	\$1,049	\$2,042
	1909	4,792	104,588	298,241	34,805	116,970	202,863		1909	42	1,406	2,610	508	883	2,060
	1904	3,219	92,749	220,419	27,392	83,625	151,040		1904	32	1,828	2,410	504	902	2,115
Agricultural implements..	1914	18	577	1,516	230	845	1,501	Gas, illuminating and heating.	1914	19	560	1,999	279	653	2,021
	1909	17	552	1,307	190	583	1,117		1909	15	459	689	206	368	1,425
	1904	16	584	939	171	602	1,040		1904	12	482	587	164	291	1,061
Bags, other than paper....	1914	4	287	1,201	110	281	698	Hosiery and knit goods...	1914	22	3,468	3,386	995	3,063	4,893
	1909	5	202	523	50	466	604		1909	22	2,743	2,948	719	1,872	3,233
	1904								1904	21	1,935	2,095	396	1,417	2,326
Boxes and cartons, paper..	1914	5	363	233	114	786	1,125	Ice, manufactured.....	1914	74	890	15,524	454	611	2,065
	1909	8	309	208	93	786	1,140		1909	61	494	8,125	210	275	1,163
	1904	4	172	36	36	87	185		1904	48	399	5,353	142	200	858
Bread and other bakery products.	1914	107	726	572	331	1,519	2,537	Leather goods.....	1914	540	778	577	299	1,414	2,004
	1909	110	491	227	213	932	1,532		1909	34	683	685	252	1,332	2,088
	1904	82	396	52	138	560	935		1904	29	1,021	827	330	1,325	2,072
Brick, tile, pottery, and other clay products.	1914	67	1,907	9,836	747	833	2,421	Liquors, malt.....	1914	3	193	908	111	380	872
	1909	102	2,493	9,016	781	687	2,325		1909	4	212	968	120	416	1,207
	1904	80	1,731	5,895	417	407	1,543		1904	5	319	1,063	141	306	1,284
Carriages and wagons and materials.	1914	65	955	1,565	466	1,364	2,354	Lumber and timber products.	1914	61,588	18,196	74,040	6,740	9,311	22,115
	1909	83	1,059	1,353	489	1,367	2,560		1909	1,826	22,257	83,404	7,305	8,505	24,632
	1904	75	1,115	1,110	426	1,222	2,303		1904	949	19,084	56,431	6,324	6,066	21,648
Cars and general shop construction and repairs by steam-railroad companies.	1914	34	6,943	14,327	4,341	4,120	8,970	Marble and stone work...	1914	100	2,622	5,912	1,278	1,114	3,652
	1909	34	6,269	6,879	3,162	2,964	6,535		1909	104	2,099	3,370	998	793	2,643
	1904	28	4,777	2,141	2,416	2,058	4,775		1904	50	2,018	2,883	823	626	2,408
Clothing, men's, including shirts.	1914	21	1,303	394	379	1,624	2,518	Mattresses and spring beds.	1914	17	299	496	316	507	916
	1909	22	1,242	290	341	1,168	1,934		1909	20	310	465	129	512	949
	1904	14	1,022	168	265	929	1,482		1904	9	226	167	67	420	681
Coffins, burial cases, and undertakers' goods.	1914	8	200	683	98	206	494	Mineral and soda waters..	1914	204	846	1,382	370	1,724	3,386
	1909	6	166	435	57	121	345		1909	176	545	363	181	861	1,835
	1904	7	133	379	63	111	277		1904	93	345	126	101	373	935
Confectionery.....	1914	18	636	380	239	1,243	2,065	Oil, cottonseed, and cake.	1914	153	4,212	43,143	1,376	27,236	32,715
	1909	23	648	553	225	1,432	2,172		1909	142	2,888	29,510	846	19,440	23,641
	1904	16	589	392	156	969	1,570		1904	112	2,307	20,860	608	11,262	13,640
Cooperage.....	1914	10	139	289	68	304	424	Patent medicines and compounds and druggists' preparations.	1914	745	155	206	63	592	1,219
	1909	14	344	647	114	470	777		1909	50	210	84	81	442	1,421
	1904	16	268	496	89	422	631		1904	34	168	126	63	319	1,541
Copper, tin, and sheet-iron products.	1914	23	499	443	286	779	1,376	Printing and publishing..	1914	8441	2,476	2,985	1,696	1,972	7,576
	1909	25	619	409	292	707	1,326		1909	442	2,395	2,008	1,344	1,588	6,400
	1904	11	186	16	88	182	325		1904	359	2,066	1,264	964	1,030	3,980
Cotton goods.....	1914	118	30,719	112,626	8,119	41,210	59,982	Tobacco, cigars.....	1914	68	331	4	138	187	450
	1909	116	27,803	92,979	7,721	32,049	48,037		1909	50	360	10	169	196	506
	1904	103	24,130	77,435	5,313	23,832	35,174		1904	37	255	32	81	124	296
Fertilizers.....	1914	230	3,833	19,097	1,406	21,220	29,046	Turpentine and rosin....	1914	562	9,118	1,158	2,101	1,173	4,608
	1909	110	2,770	10,488	921	10,944	18,800		1909	592	12,787	1,407	2,931	1,260	6,938
	1904	57	2,192	6,531	581	6,527	9,461		1904	432	11,736	362	3,041	1,156	7,706
Flour-mill and gristmill products.	1914	128	367	8,672	144	5,254	6,084	Woolen goods.....	1914	3	524	1,680	181	355	598
	1909	105	386	9,052	144	6,729	8,000		1909	7	660	1,437	175	443	871
	1904	114	464	8,341	146	7,265	8,179		1904	8	647	1,181	129	424	656
Food preparations, not elsewhere specified.	1914	15	692	2,202	270	14,047	16,824	All other industries.....	1914	279	5,634	21,778	2,390	10,554	17,890
	1909	9	216	774	83	5,523	6,410		1909	309	5,619	19,684	2,303	8,194	14,425
	1904	3	6	.....	2	23	28		1904	279	6,436	16,952	1,909	9,536	14,761
Foundry and machine-shop products.	1914	116	2,648	4,532	1,484	2,559	5,330								
	1909	107	2,892	5,244	1,452	2,662	5,808								
	1904	84	3,112	3,779	1,298	2,052	5,264								

¹ Excludes statistics of one establishment, to avoid disclosure of individual operations.

² Includes "tinware, not elsewhere specified."

³ Excludes statistics of two establishments, to avoid disclosure of individual operations.

⁴ Includes "automobile repairing," "iron and steel, cast-iron pipe," and "structural ironwork, not including that made in steel works or rolling mills."

⁵ Includes "saddlery and harness," and "trunks and valises."

⁶ Includes "boxes, wooden packing," and "lumber, planing-mill products not including planing mills connected with sawmills."

⁷ Includes "perfumery and cosmetics."

⁸ Includes "bookbinding and blank-book making" and "engraving, steel and copper plate, including plate printing."

MANUFACTURES—GEORGIA.

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TABLE 34.—COMPARATIVE SUMMARY FOR 1914, 1909, AND 1904—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
ATLANTA—All in- dustries.	1914 1909 1904	423 483 294	12,585 12,302 11,891	28,803 22,768	\$6,004 5,436 4,435	\$23,117 16,418 13,441	\$41,279 33,038 25,746	Mattresses and spring beds.	1914 1909 1904	7 10 5	204 231 199	269 291	\$101 100 61	\$372 404 397	\$672 768 628
Artificial stone products..	1914 1909 1904	7 9 3	50 157 20	..... 25	19 61 12	20 61 15	59 166 37	Paints.....	1914 1909 1904	3 4 3	20 28 19	87 68	8 14 8	143 150 98	195 177 164
Bread and other bakery products.	1914 1909 1904	22 20 14	299 193 150	254 113	140 93 53	787 438 248	1,310 690 391	Printing and publishing..	1914 1909 1904	105 116 65	1,062 1,018 959	1,280 903	755 640 506	1,170 951 638	4,423 3,836 2,184
Carriages and wagons and materials.	1914 1909 1904	8 11 5	104 171 133	75 85	64 97 67	134 222 150	282 383 286	All other industries.....	1914 1909 1904	181 192 122	7,354 6,491 6,496	22,091 15,427	3,379 2,757 2,325	15,835 9,505 8,344	26,220 18,634 15,199
Clothing, men's, includ- ing shirts.	1914 1909 1904	8 8 6	654 690 628	214 119	196 213 167	728 601 530	1,069 1,020 873	SAVANNAH—All industries.	1914 1909 1904	129 135 122	2,485 2,649 3,230	6,939 6,028	1,259 1,188 1,320	3,400 3,245 3,254	6,709 6,540 6,340
Confectionery.....	1914 1909 1904	7 12 8	593 565 447	344 520	226 198 118	1,155 1,258 642	1,926 1,924 1,079	Bread and other bakery products.	1914 1909 1904	21 25 24	132 98 104	108 45	63 42 40	219 170 142	379 280 253
Copper, tin, and sheet- iron products.	1914 1909 1904	5 12 6	239 397 362	220 162	146 138 124	395 433 362	716 817 579	Foundry and machine- shop products.	1914 1909 1904	7 6 5	177 255 255	497 488	110 137 125	70 105 115	267 442 338
Foundry and machine- shop products.	1914 1909 1904	26 25 22	671 554 949	962 1,084	378 310 433	609 594 740	1,417 1,234 1,818	Ice, manufactured.....	1914 1909 1904	6 4	53 45	1,495 270	40 21	82 37	221 122
Furniture and refrigera- tors.	1914 1909 1904	15 19 8	558 551 359	1,066 1,116	236 226 125	552 363 222	1,032 899 457	Lumber and timber prod- ucts.	1914 1909 1904	8 7 8	105 154 263	731 815	46 60 89	177 114 202	288 255 391
Leather goods.....	1914 1909 1904	5 10 7	26 67 125	6 61	16 35 50	29 101 125	75 202 290	Printing and publishing ..	1914 1909 1904	22 24 24	239 287 188	353 183	190 169 115	184 188 93	647 658 449
Lumber and timber prod- ucts.	1914 1909 1904	15 19 11	666 1,034 917	1,785 2,699	296 395 313	1,151 2,230 843	1,773 2,043 1,555	Tobacco manufactures....	1914 1909 1904	6 6 7	118 72 153	2 2	40 21 37	70 42 69	133 78 148
Marble and stone work...	1914 1909 1904	9 16 9	85 155 128	150 95	44 109 73	37 77 87	110 245 206	All other industries.....	1914 1909 1904	59 63 54	1,661 1,738 2,267	3,753 4,225	770 738 914	2,598 2,589 2,633	4,774 4,705 4,761

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

ATHENS	1914 1909 1904	48 37 28	1,308 962 509	4,303 2,209	\$459 294 140	\$1,941 1,329 753	\$3,023 2,112 1,158	MACON	1914 1909 1904	70 79 61	4,047 3,606 3,661	15,853 8,584	\$1,801 1,377 1,201	\$14,025 6,573 4,116	\$18,867 10,052 7,297
AUGUSTA	1914 1909 1904	73 71 64	4,925 5,073 4,839	16,549 13,324	1,983 1,741 1,294	8,532 6,602 5,953	12,138 10,456 8,829	ROME	1914 1909	50 36	1,389 1,014	2,735 2,265	539 320	2,206 1,078	3,301 1,864
BRUNSWICK	1914 1909 1904	34 23 29	743 335 254	2,592 712	229 191 103	364 258 187	841 672 407	WAYCROSS	1914 1909	27 21	1,302 1,130	3,339 2,995	843 469	1,041 612	2,086 1,203
COLUMBUS	1914 1909 1904	71 53 52	4,802 4,593 4,434	16,922 14,541	1,835 1,618 1,305	6,368 5,521 4,284	10,619 8,478 7,080								

¹ Figures do not agree with those published, because it was necessary to revise them in order to include data only for those establishments located within the corporate limits of the city.

² Figures can not be shown without disclosing individual operations.

³ Excludes statistics for one establishment, to avoid disclosure of individual operations.

MANUFACTURES—GEORGIA.

TABLE 35.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.	Num- ber of estab- lish- ments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAR- EST REPRESENTATIVE DAY.				Capital.	
		Total.	Pro- pri- etors and firm mem- bers.	Sala- ried offi- cers, su- per- in- ten- dents, and man- agers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Fe- male.	Aver- age num- ber.	Number, 15th day of—			Male.	Fe- male.	Male.		Fe- male.
								Maximum month.	Minimum month.						

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

		4,639	118,565	4,443	4,198	4,679	784	104,461	Mh 115,286	De 97,751	(³)	(³)	(³)	(³)	(³)	\$258,325,811
1	All industries.....															
2	Agricultural implements.....	18	659	16	31	30	5	577	Ja 798	Je 407	613	504	19	5		1,801,169
3	Artificial stone products.....	27	152	29	14	2	1	106	Ap 146	De 82	132	127	5			137,827
4	Automobile repairing.....	17	117	23	5			88	Au 90	De 87	90	90				58,551
5	Bags, other than paper.....	4	303	3	6	4	3	287	Se 331	Ja 220	360	197	105	29	29	1,076,436
6	Boxes and cartons, paper.....	5	430		24	36	7	363	Se 396	De 335	354	163	190	1		810,537
7	Boxes, wooden packing.....	7	890	3	22	11	1	823	Ap 929	Oc 746	813	688	108	17		933,492
8	Bread and other bakery products....	107	937	110	25	53	23	726	Je 739	Ja 701	730	576	131	18	5	856,389
9	Brick and tile, terra-cotta, and fire-clay products.....	53	2,053	35	83	53	7	1,875			2,178	2,153	1	24		4,204,939
10	Building brick.....	43	1,158	35	48	22	2	1,051	Je 1,292	De 587	1,342	1,323	1	18		2,342,608
11	Sewer pipe and drain tile.....	6	537		22	11	1	503	Ap 543	No 337	525	520		5		1,017,216
12	Fire brick and architectural terra cotta.....	4	358		13	20	4	321	Ap 338	Fe 306	311	310		1		845,115
13	Brooms.....	12	106	9	4	1		92	De 99	Jy 78	100	93	3	4		125,897
14	Canning and preserving, fruits and vegetables.....	10	128	10	5			113			655	214	350	40	51	89,724
15	Canned vegetables.....	5	55	6	2			47	Jy 193	Ja 20	211	48	90	32	41	19,500
16	Canned fruits.....	5	73	4	3			66	Jy 440	Au 40	444	166	260	8	10	70,224
17	Canning and preserving, oysters.....	3	263	4	4	7	1	247	Ja 368	My 7	367	172	185	3	7	59,822
18	Carriage and wagon materials.....	6	131	5	8	3	1	114	Fe 134	Se 80	125	119	2	4		173,137
19	Carriages, wagons, and repairs.....	59	1,004	61	49	40	13	841	Mh 1,028	De 478	957	948	5	4		2,457,129
20	Cars and general shop construction and repairs by electric-railroad companies.....	8	242		7	16		219	Ja 237	De 204	210	210				653,353
21	Cars and general shop construction and repairs by steam-railroad companies.....	34	7,380		185	231	21	6,943	Jy 7,142	No 6,648	6,616	6,605	10	1		4,635,912
22	Clothing, men's and youths'.....	17	1,316	14	32	74	9	1,187	Mh 1,402	No 779	1,374	143	1,209	5	17	1,254,361
23	Clothing, women's.....	7	243	5	10	11	2	215	Mh 261	Oc 165	238	14	223		1	154,120
24	Coffee, roasting and grinding.....	6	45	4	5	6		30	Mh 31	De 29	29	18	11			79,546
25	Coffins, burial cases, and undertakers' goods.....	8	239	8	12	17	2	200	Ja 213	Se 188	196	187	9			601,277
26	Confectionery and ice cream.....	42	962	34	36	137	29	726	De 717	Jy 582	810	402	396	8	4	1,185,137
27	Confectionery.....	18	832	15	25	127	29	636	Je 128	De 55	707	301	396	6	4	1,048,170
28	Ice cream.....	24	130	19	11	10		90	Ap 174	Ja 111	103	101		2		136,967
29	Cooperage.....	10	161	6	13	1	2	139	Ap 174	Ja 111	148	148				322,317
30	Copper, tin, and sheet-iron products.....	23	592	15	24	43	11	499	Ja 580	De 446	450	381	43	23	3	2,704,707
31	Cotton goods.....	118	31,486	9	398	301	59	30,719	Ja 31,763	Au 29,259	34,226	18,327	9,514	4,898	1,487	70,705,809
32	Druggists' preparations.....	3	31	5	1			24	Ja 25	Fe 23	24	9	15			28,500
33	Fertilizers.....	230	5,005	136	412	571	53	3,833	Mh 9,997	Jy 1,920	4,885	4,859	2	24		46,507,610
34	Flavoring extracts.....	4	17	2	1			14	Jy 15	De 13	13	13				19,902
35	Flour-mill and gristmill products.....	128	617	151	38	53	8	367	Jy 394	De 352	381	380		1		2,317,442
36	Food preparations, not elsewhere specified.....	15	893	11	24	148	18	692			747	727	20			4,270,016
37	Breadstuff preparations, lard compounds, and macaroni.....	5	784	3	14	138	15	614	No 644	My 577	622	602	20			4,005,686
38	All other, including that for animals and fowls.....	10	109	8	10	10	3	78	Oc 100	Au 60	125	125				264,330
39	Foundry and machine-shop products.....	95	2,840	96	115	191	37	2,401			2,365	2,347	3	15		7,756,803
40	Boiler shops and foundries.....	9	365	8	14	25	4	314	Ja 334	Mh 268	353	352		1		739,609
41	Machine shops.....	86	2,475	88	101	166	33	2,087	Au 2,359	No 1,667	2,012	1,995	3	14		7,017,254
42	Furniture.....	34	1,528	13	68	66	16	1,365			1,536	1,448	21	67		2,056,936
43	Wood, including rattan and willow.....	24	1,165	11	44	42	10	1,058	Fe 1,280	Oc 776	1,222	1,150	21	51		1,410,985
44	Metal, including store and office fixtures.....	10	363	2	24	24	6	307	Au 334	De 235	314	298		16		645,951
45	Gas, illuminating and heating.....	19	769		42	151	16	560	Je 668	Fe 468	521	479	42			9,985,826
46	Hand stamps.....	5	23	4	1	2	2	14	(⁵) 14	(⁵) 14	14	12	1			20,991
47	Hosiery and knit goods.....	22	3,602	3	59	57	15	3,468	Ja 3,581	De 3,237	3,641	1,274	2,047	138	182	3,779,510
48	Ice, manufactured.....	74	1,143	42	90	110	11	890	Jy 1,250	Ja 606	966	930	2	34		8,342,247
49	Jute goods.....	4	95	3	6	3	1	82	Ap 96	No 50	96	51	38		6	165,839
50	Liquors, malt.....	3	225		16	15	1	193	Jy 227	Ja 159	192	192				1,176,908
51	Lumber and timber products.....	1,438	17,439	1,819	381	202	14	15,023	Mh 17,082	No 13,508	20,882	20,795	10	2	75	18,048,804
52	Lumber, planing-mill products, not including planing mills connected with sawmills.....	143	2,834	144	168	151	21	2,350	Je 2,542	No 1,979	2,267	2,238	14	14	1	5,063,769
53	Marble and stone work.....	100	2,949	104	99	114	10	2,622	Jy 2,882	De 2,066	2,772	2,744		28		4,119,780
54	Mattresses and spring beds.....	17	378	10	28	34	7	299	Ja 364	De 222	315	218	31	61	5	607,370
55	Millinery and lace goods.....	5	187	1	10	8	3	165	Mh 240	Jy 122	156	47	109			237,195
56	Mineral and soda waters.....	204	1,250	202	119	71	12	846	Jy 979	Ja 732	857	826	7	24		1,930,841
57	Minerals and earths, ground.....	9	207		17	6		184	Ja 228	Je 122	236	232	2	2		1,075,530
58	Oil, cottonseed, and cake.....	163	5,117	17	450	415	23	4,212	Oc 6,688	Jy 1,284	6,658	6,642	7	9		18,818,461
59	Optical goods.....	7	64	4	8	4	1	47	My 50	De 36	46	46				69,026
60	Paints.....	6	57	3	5	19	3	27	Se 30	Fe 24	29	26	3			249,813
61	Patent medicines and compounds.....	41	277	31	28	58	31	129	Fe 146	Jy 107	141	90	48	3		565,342
62	Paving materials.....	5	270	2	7	7	1	253	Jy 344	De 110	308	306		2		313,048
63	Photo-engraving.....	4	48	7	6	2		33	De 35	Jy 32	35	32		3		80,097
64	Pottery, earthen and stone ware.....	14	53	19		2		32	My 42	De 17	41	41				25,250

1 Owned power only.

2 Includes rented power, other than electric.

3 No figures given for reasons stated under "Explanation of terms."

MANUFACTURES—GEORGIA.

23

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horse-power generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

\$6,624,866	\$5,197,421	\$38,128,407	\$817,739	\$784,344	\$2,000,850	\$154,558,903	\$5,529,706	\$253,270,511	\$93,181,902	357,403	245,811	7,305	27,829	76,458	26,682	1
64,671	32,274	230,384	479	1,195	14,961	824,330	20,499	1,501,347	656,518	1,516	1,131	43	342	681	2	
14,606	1,756	43,688	200	3,683	1,412	49,428	93	146,819	97,298	12	12	12	12	12	3	
6,000	600	62,848	1,025	7,590	943	65,843	2,304	180,295	112,148	138	69	69	69	69	4	
16,300	4,970	109,774	250	18	4,872	267,588	13,732	698,081	416,761	1,291	1,230	6	30	1,260	5	
44,953	60,116	114,126	18,031	6,299	780,833	371,426	5,361	1,124,562	338,368	233	1,225	108	108	95	6	
43,363	10,303	268,474	5,648	156	4,723	371,426	1,532	895,031	522,073	2,285	2,240	45	45	62	7	
45,484	50,929	330,548	1,000	51,584	9,098	1,475,386	43,711	2,537,212	1,018,115	572	9	18	563	563	8	
143,134	49,528	739,017	3,439	516	18,839	233,849	594,139	2,394,349	1,566,361	9,741	6,155	18	3,568	55	9	
67,833	26,193	388,591	1,675	516	10,112	77,803	377,748	1,304,995	849,444	6,981	4,085	13	2,883	40	10	
49,506	11,595	211,635	1,300	4,908	116,276	130,672	130,672	665,588	418,640	1,800	1,110	5	685	15	11	
25,795	11,740	138,791	464	3,819	39,770	85,719	85,719	423,766	298,277	960	960	10	10	15	12	
4,740	600	31,512	-----	3,426	835	129,226	1,388	198,125	67,511	58	-----	13	45	-----	13	
5,051	-----	18,008	-----	250	447	88,278	1,088	133,775	44,409	216	200	4	12	-----	14	
416	-----	4,130	-----	250	61	12,976	290	22,742	9,476	73	69	4	-----	-----	15	
4,635	-----	13,878	-----	386	75,302	798	798	111,033	34,933	143	131	12	-----	-----	16	
6,668	3,665	28,483	-----	280	352	43,787	1,360	103,848	58,701	163	20	143	-----	4	17	
13,479	2,692	42,485	-----	3,727	1,899	154,726	2,777	254,065	96,562	200	85	10	105	-----	18	
76,455	63,760	423,092	225	21,352	17,515	1,182,250	24,247	2,100,143	893,646	1,365	705	98	562	16	19	
12,634	17,639	80,531	-----	8,104	8,104	95,215	1,557	214,642	117,870	203	-----	-----	203	222	20	
248,152	249,699	4,340,507	655	3,000	4,754	3,969,740	150,327	8,970,460	4,850,393	14,327	7,975	97	6,255	4,051	21	
50,175	64,591	346,511	19,907	22,172	6,681	1,526,604	9,781	2,371,145	834,760	369	-----	32	25	312	30	
19,142	16,619	76,527	-----	5,393	1,010	180,577	1,945	348,288	165,766	53	-----	-----	-----	53	22	
8,535	4,540	11,132	-----	4,810	714	112,704	1,376	168,908	54,828	63	-----	-----	-----	63	23	
21,063	32,210	98,410	-----	-----	4,932	200,064	5,752	494,433	288,617	683	505	110	68	-----	25	
81,104	132,797	277,649	315	21,149	11,765	1,488,463	31,407	2,455,233	935,363	817	180	5	632	110	26	
66,824	123,855	238,567	-----	9,114	10,552	1,225,704	17,091	2,065,028	822,293	380	175	-----	205	110	27	
14,280	8,942	39,082	315	12,035	1,213	262,759	14,316	390,145	113,070	437	5	5	427	-----	28	
16,362	785	68,410	246	350	3,390	300,629	3,420	423,698	119,649	289	125	12	152	-----	29	
57,333	51,330	285,886	-----	7,025	10,013	769,110	10,005	1,375,978	596,863	443	290	2	151	167	30	
896,253	347,682	8,118,917	55,772	1,290	487,783	39,831,150	1,378,424	59,982,008	18,772,434	112,626	67,803	4	21,986	22,833	31	
17,940	1,720	12,002	-----	3,000	938	43,740	103	118,000	74,157	3	-----	-----	-----	3	32	
651,493	672,126	1,405,619	57,467	61,835	193,940	20,997,048	222,872	29,045,903	7,825,983	19,097	4,996	1,818	12,283	767	33	
700	-----	6,309	-----	1,700	286	31,730	54	63,703	21,919	2	-----	-----	2	-----	34	
60,860	62,159	144,382	-----	4,408	26,224	5,206,834	47,346	6,083,760	829,580	8,672	2,650	415	4,212	1,295	35	
68,481	144,042	270,060	-----	5,139	31,167	13,917,056	129,930	16,824,265	2,777,279	2,202	645	579	978	266	36	
54,311	127,703	238,157	-----	840	28,317	13,084,126	125,066	15,844,890	2,635,698	1,597	535	550	512	266	37	
14,170	16,339	31,903	-----	4,299	2,850	832,930	4,864	979,375	141,581	605	110	29	466	-----	38	
237,375	318,896	1,329,362	29,364	27,855	56,877	2,128,924	106,831	5,242,034	3,006,279	3,822	2,301	214	175	1,132	1,654	
18,490	21,982	163,783	-----	7,260	10,462	389,149	33,753	774,021	351,119	598	383	17	100	98	40	
218,885	296,914	1,165,579	29,364	20,595	46,415	1,739,775	73,078	4,468,013	2,655,160	3,224	1,918	197	75	1,034	1,594	
132,172	89,591	509,382	14,124	26,614	16,007	1,021,131	28,036	2,042,263	993,096	2,967	2,115	41	811	35	42	
92,039	58,625	381,991	-----	23,989	12,373	691,080	17,677	1,444,306	735,549	1,989	1,700	8	281	25	43	
40,133	30,966	127,391	14,124	2,625	3,634	330,051	10,359	597,957	257,547	978	415	33	530	10	44	
67,728	145,925	278,822	922	1,450	114,726	206,344	446,645	2,020,780	1,367,791	1,999	1,534	-----	465	17	45	
2,400	1,780	8,904	701	1,994	249	6,543	353	36,250	29,354	3	-----	-----	3	-----	46	
99,278	80,703	994,920	885	345	22,434	2,952,709	110,143	4,892,931	1,830,079	3,386	1,710	35	1,641	144	47	
140,974	97,625	454,470	1,706	14,966	50,672	207,639	403,847	2,064,984	1,453,498	15,524	15,303	12	209	474	48	
8,488	2,480	17,418	190	1,680	2,097	166,237	873	188,386	21,276	180	-----	-----	180	-----	49	
48,976	21,273	111,253	-----	157,453	348,858	31,236	871,764	491,670	808	908	780	-----	128	568	50	
384,151	194,603	5,474,781	244,149	10,775	116,278	4,702,185	58,316	14,801,752	10,041,261	61,518	59,554	373	626	965	244	
232,540	174,841	996,946	17,062	28,007	53,218	4,118,520	59,020	6,418,212	2,240,672	10,837	9,024	239	105	1,469	118	
156,404	123,625	1,277,931	17,368	31,431	16,241	1,003,065	110,599	3,651,595	2,587,931	5,912	4,258	164	195	1,295	673	
59,684	48,563	316,347	-----	16,242	7,173	496,555	10,245	915,941	409,141	496	-----	50	446	-----	54	
24,718	9,374	71,636	-----	8,204	1,085	208,478	3,257	379,086	167,351	74	25	10	39	-----	55	
155,216	70,264	369,532	2,885	51,728	70,482	1,675,560	48,147	3,385,747	1,662,040	1,382	414	326	1	641	56	
22,256	4,175	76,849	1,930	9,827	2,060	66,745	37,506	250,077	145,826	1,400	1,385	15	-----	50	57	
617,872	344,834	1,375,936	18,145	15,302	153,560	26,558,716	677,204	32,714,801	5,478,881	43,143	35,853	1,083	6,207	650	58	
17,440	6,747	35,045	-----	8,539	2,399	93,648	937	198,431	103,846	23	-----	-----	23	-----	59	
9,746	16,056	11,148	200	4,190	1,253	159,287	2,435	225,248	63,526	322	-----	185	137	-----	60	
49,674	74,500	50,273	2,368	15,919	7,117	539,183	2,934	1,089,358	547,241	153	90	2	61	3	61	
17,050	6,800	117,670	1,250	6,950	563	33,363	11,865	210,407	165,179	1,200	375	-----	825	-----	62	
12,400	1,480	32,553	-----	1,650	289	7,085	1,066	75,110	66,959	32	-----	-----	32	-----	63	
-----	1,905	8,232	300	174	86	3,668	1,670	26,800	21,462	95	60	-----	35	-----	64	

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

MANUFACTURES—GEORGIA.

TABLE 35.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.		
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.			Under 16.	
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.		Male.	Female.
								Maximum month.	Minimum month.						

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

1	Printing and publishing, book and job.	122	1,277	128	84	98	44	923		889	620	247	20	2	\$2,227,035
2	Job printing.	116	1,225	125	76	90	43	891	Fe 942 Oc 845	856	600	235	19	2	2,132,000
3	Book publishing and printing, including linotype work.	6	52	3	8	8	1	32	Jy 35 Ja 30	33	20	12	1		94,435
4	Printing and publishing, newspapers and periodicals.	313	2,786	320	205	609	156	1,496		1,476	1,325	95	56		3,573,331
5	Printing and publishing.	30	1,002	17	70	369	72	474	Jy 488 Fe 455	466	440	19	7		1,217,820
6	Printing, publishing, and job printing.	226	1,587	270	96	152	47	1,022	Je 1,044 De 1,011	1,010	885	76	49		2,107,024
7	Publishing without printing.	57	197	33	39	88	37								247,878
8	Saddlery and harness.	37	896	43	32	56	7	758	Fe 912 De 544	812	728	77	7		1,781,211
9	Shipbuilding, wooden, new vessels and small boats.	4	18	4				14	Au 18 Ja 11	11	11				11,275
10	Shirts.	4	124	1	6	1		116	Oc 126 Jy 98	124	23	99	2		53,702
11	Stoves and hot-air furnaces.	6	269	1	17	17	5	229	My 280 No 155	206	206				536,879
12	Structural ironwork, not made in steel works or rolling mills.	3	82	1	3	11		67	Oc 83 Mh 58	80	80				185,802
13	Tobacco, cigars.	68	423	70	14	8		331	Oc 350 Au 309	384	191	180	10	3	152,094
14	Trunks and valises.	3	30	3	5	2		20	Ja 35 De 12	19	19				27,298
15	Turpentine and rosin.	562	10,166	569	422	55	2	9,113	My 10,116 De 7,714	9,998	9,933	1	64		4,572,172
16	Upholstering materials, excelsior.	4	36	2	3			31	Oc 40 Ja 25	40	40				28,110
17	Wirework, guards, railings, and baskets.	3	14	3				11	Mh 13 De 9	11	11				4,175
18	Wood, turned and carved.	5	100	4	5	2		89	My 127 Au 25	80	78		2		155,202
19	Woolen goods.	3	542	11	4	3		524	Ja 612 De 393	505	267	205	21	12	1,274,798
20	All other industries*.	119	4,075	67	186	278	64	3,480							11,077,273

* All other industries embrace—
 Artificial limbs. 1
 Artists' materials. 1
 Asbestos products. 1
 Automobile bodies and parts. 1
 Awnings, tents, and sails. 2
 Babbitt metal and solder. 1
 Baskets, and rattan and willow ware. 1
 Belting, leather. 2
 Bookbinding and blank-bookmaking. 2
 Boots and shoes. 1
 Brass and bronze products. 2

Brushes. 1	Coke, not including gas-house coke. 1	Grease and tallow. 1
Butter. 1	Cordage and twine. 2	Hats, straw. 1
Canning and preserving, fish. 2	Cordials and flavoring sirups. 4	Hats, wool felt. 1
Card cutting and designing. 1	Cotton small wares. 1	Hones and whetstones. 1
Cars, steam-railroad, not including operations of railroad companies. 2	Dyestuffs and extracts. 2	House-furnishing goods, not elsewhere specified. 2
Cement. 1	Engraving, steel and copper plate, including plate printing. 1	Ink, printing. 2
Charcoal, not including production in the lumber and wood distillation industries. 1	Fancy articles, not elsewhere specified. 1	Iron and steel, steel works and rolling mills. 1
Chemicals. 3	Furnishing goods, men's. 2	Iron and steel, cast-iron pipe. 1
Cleansing preparations. 1	Glass, cutting, staining, and ornamenting. 1	Jewelry. 1
	Graphite, ground and refined. 3	Labels and tags. 1

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

1	ATLANTA—All industries.	423	15,504	270	647	1,634	368	12,585	Mh 13,396	De 11,773	12,570	9,233	3,070	207	60	\$36,084,127
2	Artificial stone products.	7	65	4	9	2		50	Ap 89	De 34	62	62				77,200
3	Boxes and cartons, paper.	5	431	2	24	36	7	364	Se 396	De 335	354	163	190	1		810,537
4	Bread and other bakery products.	22	399	21	18	48	13	299	My 312	Ja 285	294	242	46	1	5	408,163
5	Brooms.	5	70	3	8	1		63	De 66	Jy 58	67	62	1	4		72,756
6	Carriages and wagons and materials.	8	133	7	11	4		104	My 111	De 95	98	95	2	1		174,413
7	Cars and general shop construction and repairs by steam-railroad companies.	3	1,561	47	44	5		1,465	Se 1,500	De 1,432	1,387	1,377	10			957,132
8	Clothing, men's and youth's.	8	701	6	13	27	1	654	Fe 789	De 483	767	72	694		1	508,967
9	Clothing, women's.	7	243	5	10	11	2	215	Mh 262	Oc 165	238	14	223		1	154,120
10	Confectionery and ice cream.	12	822	4	27	126	27	638			713	310	393	6	4	1,019,844
11	Confectionery.	7	766	2	23	121	27	593	De 681	Je 534	671	268	393	6	4	963,059
12	Ice cream.	5	56	2	4	5		45	Je 63	De 31	42	42				56,785
13	Copper, tin, and sheet-iron products.	5	273	2	7	22	3	239	Ja 319	De 179	179	168	8	3		1,301,653
14	Foundry and machine-shop products.	20	594	20	20	47	11	496	Jy 588	De 415	443	436		7		1,507,187
15	Furniture and refrigerators.	15	647	6	29	41	13	558	Se 578	De 524	555	532	1	22		965,299
16	Gas, illuminating and heating.	5	367		11	92	5	259	No 287	Mh 229	260	260				4,476,445
17	Hand stamps.	5	23	4	1	2	2	14	(^c) 14	(^c) 14	14	12	1	1		20,951
18	Ice, manufactured.	5	260		7	38	5	210	Jy 286	Ja 155	203	203				2,607,721
19	Lumber, planing-mill products, not including planing mills connected with sawmills.	15	766	14	23	58	5	666	Je 768	De 518	619	598	13	8		1,439,234
20	Marble and stone work.	9	109	12	6	6		85	Se 107	Ja 63	97	97				67,465
21	Mattresses and spring beds.	7	253	2	17	25	5	204	Ja 252	De 158	199	117	16	61	5	426,275
22	Millinery and lace goods.	5	188	1	10	8	3	166	Mh 245	Jy 122	156	47	109			237,195
23	Mineral and soda waters.	10	129	9	7	17	3	93	Je 113	De 73	81	81				223,440
24	Oil, cottonseed, and cake.	4	415		14	42	2	357	Fe 524	My 117	498	496	2			1,970,857
25	Optical goods.	3	51		8	4	1	38	My 54	De 27	37	37				53,176
26	Paints.	3	45		4	18	3	20	Se 21	Ja 18	20	17	3			215,641
27	Patent medicines and compounds.	21	208	9	20	52	31	96	Ja 113	Jy 75	103	65	37	1		486,162

1 Owned power only.

2 Includes rented power, other than electric.

3 Same number reported for one or more other months.

MANUFACTURES—GEORGIA.

25

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$161,683	\$126,269	\$589,209	\$21,040	\$60,776	\$15,480	\$641,295	\$23,593	\$2,217,274	\$1,552,386	1,038	19	51	.....	968	10	1
148,623	121,149	568,743	9,043	60,096	14,571	603,767	22,031	2,094,275	1,468,477	899	19	16	.....	864	10	2
13,060	5,120	20,466	11,997	680	909	37,528	1,562	122,999	83,909	139	.....	35	.....	104	.....	3
398,630	643,076	1,074,145	248,574	93,130	37,277	1,221,577	47,664	5,237,563	3,968,297	1,926	7	312	3	1,604	.....	4
180,641	330,936	466,990	13,719	39,765	14,466	564,378	22,324	2,312,898	1,726,196	934	2	43	.....	889	.....	5
158,948	195,987	607,155	4,949	43,568	21,210	630,167	25,340	2,318,041	1,662,534	992	5	269	3	715	.....	6
59,041	116,153	.....	229,906	9,797	1,601	27,032	.....	606,624	579,567	.....	.....	.....	.....	.....	.....	7
77,267	79,227	289,584	.....	9,265	14,253	1,375,477	22,406	1,950,489	552,606	539	164	52	32	291	10	8
.....	.....	8,055	.....	366	90	4,231	106	15,840	11,503	18	.....	15	.....	3	.....	9
8,510	1,200	32,871	.....	3,954	216	85,972	1,368	147,241	59,901	25	.....	.....	.....	25	.....	10
31,358	17,824	139,930	.....	720	4,727	121,424	11,072	372,443	239,947	250	125	.....	.....	125	.....	11
11,933	13,581	36,830	.....	.....	1,303	99,856	1,212	184,518	83,450	172	67	90	.....	15	100	12
10,670	3,638	137,725	310	8,094	44,069	186,238	798	450,341	263,305	4	.....	.....	.....	4	.....	13
8,066	1,183	9,574	.....	2,170	149	15,101	562	53,235	37,572	38	25	.....	.....	13	.....	14
275,344	33,568	2,101,320	40,094	6,933	36,874	1,142,356	30,274	4,607,590	3,434,960	1,158	775	363	20	.....	.....	15
2,400	.....	10,110	.....	120	300	10,870	1,181	40,150	28,099	250	175	.....	.....	75	.....	16
.....	.....	5,293	.....	420	59	4,900	35	13,600	8,665	24	.....	.....	.....	24	.....	17
8,700	2,160	44,810	529	324	553	50,445	1,586	130,416	78,385	690	490	15	.....	185	.....	18
25,375	4,980	181,194	.....	.....	5,018	334,918	19,629	997,876	243,329	1,680	1,170	.....	.....	510	.....	19
413,247	365,543	1,563,051	7,015	61,151	114,412	8,222,186	508,525	14,351,902	5,621,213	16,576	10,944	178	297	5,157	2,485	20

Lead, bar, pipe, and sheet.....	1	Pencils, lead.....	1	Show cases.....	2	Toys and games.....	2
Leather, tanned, curried, and finished	4	Perfumery and cosmetics.....	1	Silk goods, throwsters and winders...	1	Type founding.....	1
Locomotives, not made by railroad companies.....	2	Pickles, preserves, and sauces.....	2	Slaughtering and meat packing.....	4	Umbrellas and canes.....	1
Looking-glass and picture frames.....	2	Printing and publishing, music.....	3	Soap.....	2	Waste.....	1
Models and patterns, not including paper patterns.....	1	Printing materials.....	2	Stationery goods, not elsewhere specified.....	3	Window and doorscreens and weather strips.....	1
Musical instruments and materials, not specified.....	1	Refrigerators.....	1	Statuary and art goods.....	1	Wood distillation, not including turpentine and rosin.....	1
Oil, not elsewhere specified.....	1	Regalia and society badges and emblems.....	1	Steam packing.....	1	Wood preserving.....	1
Paper and wood pulp.....	1	Roofing materials.....	1	Stencils and brands.....	1		
Paper goods, not elsewhere specified.....	2	Sausage.....	3	Stereotyping and electrotyping.....	2		
		Saws.....	1	Tobacco, smoking.....	1		
		Scales and balances.....	2	Tools, not elsewhere specified.....	1		

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

\$1,470,835	\$1,892,530	\$6,003,566	\$268,596	\$345,035	\$400,497	\$22,340,137	\$776,919	\$41,278,927	\$18,161,871	28,803	21,277	62	.....	7,464	4,143	1
10,946	1,080	19,389	.....	2,725	505	19,985	50	59,008	38,973	.....	.....	.....	.....	.....	.....	2
44,953	60,116	114,126	.....	18,031	6,299	780,833	5,361	1,124,562	338,368	233	.....	.....	.....	108	95	3
37,244	44,273	140,011	.....	24,793	2,908	767,742	19,091	1,310,358	523,525	254	125	.....	.....	248	.....	4
3,540	600	22,751	.....	3,210	449	97,333	744	137,524	39,447	75	6	.....	.....	28	.....	5
14,925	10,880	64,272	150	7,950	1,558	130,109	3,514	281,799	148,176	78	.....	.....	.....	75	.....	6
67,058	41,667	988,778	.....	.....	1,706	1,061,464	29,036	2,178,005	1,087,505	745	540	.....	.....	205	165	7
24,066	16,133	195,630	19,907	16,949	2,620	722,775	5,674	1,068,811	340,362	214	.....	.....	.....	214	.....	8
19,142	16,619	76,527	.....	5,393	1,010	180,577	1,945	348,288	165,766	53	.....	.....	.....	53	.....	9
70,494	122,303	246,302	.....	14,399	10,308	1,298,686	25,223	2,142,023	818,114	614	150	.....	.....	464	110	10
63,714	116,131	225,527	.....	7,032	9,884	1,139,202	15,435	1,926,094	771,457	344	150	.....	.....	194	110	11
6,780	6,172	20,775	.....	7,367	424	159,484	9,788	215,929	46,657	270	.....	.....	.....	270	.....	12
20,721	26,282	146,201	.....	1,360	7,172	389,466	5,433	715,536	320,637	220	100	.....	.....	120	.....	13
35,703	72,850	274,016	2,518	9,563	11,527	391,136	9,176	1,056,915	656,603	533	357	.....	.....	176	.....	14
68,322	60,341	235,512	6,265	23,408	8,194	537,463	14,191	1,032,222	480,568	1,066	690	.....	.....	376	10	15
28,333	92,698	142,786	.....	650	71,953	90,129	259,690	1,185,596	335,777	1,040	585	.....	.....	455	.....	16
2,400	1,780	8,904	701	1,994	249	6,543	363	36,250	29,354	8	.....	.....	.....	3	.....	17
17,649	39,652	104,585	.....	2,153	11,221	46,855	69,204	495,804	379,745	3,668	3,648	.....	.....	20	90	18
43,402	73,830	295,842	1,000	11,440	16,827	1,138,960	12,052	1,773,082	622,070	1,785	1,725	.....	.....	60	35	19
5,335	5,175	44,030	800	2,135	704	35,268	2,112	109,684	72,304	150	70	8	.....	72	5	20
42,749	38,381	101,129	.....	13,282	5,620	365,598	6,824	671,904	299,482	269	.....	.....	.....	269	.....	21
24,718	9,374	71,636	.....	8,204	1,085	208,478	3,257	379,086	167,351	74	25	10	.....	39	.....	22
16,584	18,466	43,015	1,605	5,670	4,375	221,211	4,431	480,126	254,484	88	16	.....	.....	72	.....	23
36,592	49,510	111,339	.....	.....	11,093	2,720,137	44,313	3,224,852	460,402	2,905	2,300	10	.....	595	175	24
17,440	6,747	28,933	.....	5,279	2,089	87,073	637	169,181	81,471	15	.....	.....	.....	15	.....	25
7,946	15,256	8,350	.....	2,220	901	140,780	2,099	194,836	51,957	87	.....	.....	.....	87	.....	26
41,614	64,800	35,022	248	12,387	6,473	501,315	2,662	985,811	481,834	132	90	2	.....	40	1	27

¹ Includes "tinware."

² Same number reported for entire year.

³ Includes "boxes, wooden packing."

MANUFACTURES—GEORGIA.

TABLE 35.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

ATLANTA—Continued.															
1	Printing and publishing, book and job.	50	731	48	44	63	28	548		528	354	168	6		\$1,512,796
2	Job printing.	47	722	47	43	57	28	547	Fe 579 Oc 515	525	352	168	5		1,501,796
3	Book publishing and printing, including linotype work.	3	9	1	1	6		1	De 3 Au 2	3	2		1		11,000
4	Printing and publishing, newspapers and periodicals.	52	1,178	22	84	497	116	459		434	411	18	5		1,511,113
5	Printing and publishing.	4	604		29	330	55	190	Ja 199 Se 178	181	178	2	1		653,678
6	Printing, publishing, and job printing.	6	392	2	18	79	24	269	Je 290 No 252	253	233	16	4		622,068
7	Publishing without printing.	42	182	20	37	88	37								235,367
8	Tobacco, cigars.	14	57	16	1	3		37	De 42 Au 30	56	35	21			23,601
9	All other industries*.	98	4,785	55	172	300	70	4,188		4,108	2,870	1,114	80	44	12,854,775

* All other industries embrace—	Brass and bronze products.	2	Coffee, roasting and grinding.	3	Flour-mill and gristmill products.	1
Agricultural implements.	Brushes.	1	Coffins, burial cases, and undertakers' goods.	2	Food preparations, sweetening sirups, other than cane.	1
Artificial limbs.	Card cutting and designing.	1	Cordials and flavoring sirups.	3	Furnishing goods, men's.	2
Automobile repairing.	Cars and general shop construction and repairs by steam-railroad companies.	1	Cotton goods.	2	Glass, cutting, staining, and ornamenting.	3
Awnings, tents, and sails.	Cars, steam-railroad, not including operations of railroad companies.	1	Druggists' preparations.	2	Graphite, ground and refined.	1
Babbitt metal and solder.			Engraving, steel and copper-plate, including plate printing.	1	Hats, straw.	1
Belting, leather.			Fertilizers.	1	Hones and whetstones.	1
Bookbinding and blank-book making.	Chemicals.	3	Flavoring extracts.	3	Hosiery and knit goods.	1
Boots and shoes.						

SAVANNAH—All industries.															
1	Bread and other bakery products.	21	158	24			2	132	Oc 135 Ap 126	135	86	43	6		142,242
2	Confectionery.	4	22	6				16	(4) 16	16	15	1			32,253
3	Copper, tin, and sheet-iron products.	5	55	3	7	1	2	42	Oc 48 Je 36	40	39		1		74,011
4	Foundry and machine-shop products.	7	202	7	6	10	2	177	Fe 200 Oc 149	176	176				273,235
5	Ice, manufactured.	6	73	4	9	6	1	53	Au 74 Fe 32	53	52	1			676,953
6	Lumber, planing-mill products, not including planing mills connected with sawmills.	8	127	12	3	5	2	105	Oc 114 Ap 100	102	101	1			141,282
7	Mineral and soda waters.	7	134	3	7	14		110	Jy 126 De 98	106	106				452,902
8	Marble and stone work.	4	28	4				24	(4) 24 (4) 24	24	24				19,550
9	Printing and publishing, book and job.	10	165	8	14	15	6	122	My 131 De 105	107	78	25	4		283,501
10	Printing and publishing, newspapers and periodicals.	12	186	12	9	39	9	117		110	94	9	7		332,545
11	Printing and publishing.	6	52	5	6	3	1	37	(4) 37 (4) 37	37	32	2	3		78,515
12	Printing and publishing, and job printing.	6	134	7	3	36	8	80	Ap 86 De 73	73	62	7	4		254,030
13	Tobacco, cigars.	6	125	6	1			118	Oc 138 Au 94	138	20	115	3		55,030
14	All other industries*.	39	1,695	27	51	131	17	1,469		1,440	1,108	274	34	24	7,762,215

* All other industries embrace:	Boxes, wooden packing.	1	Cars and general shop construction and repairs by steam-railroad companies.	1	Cars and general shop construction and repairs by electric-railroad companies.	1
Awnings, tents, and sails.	Brooms.	2	Canning and preserving, oysters.	1	Cleansing and polishing preparations.	1
Bags, other than paper.	Carriages and wagons.	2				
Bookbinding and blank-book making.						

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

1	ATHENS.	48	1,480	50	61	52	9	1,308	Fe 1,421 No 1,226	1,315	807	356	76	76	\$3,229,977
2	AUGUSTA.	73	5,353	47	144	202	35	4,925	Mh 5,194 Au 4,653	4,937	3,607	1,178	82	70	13,958,684
3	BRUNSWICK.	34	834	22	34	33	2	743	Fe 1,098 Je 458	1,364	1,026	335	3		830,864
4	COLUMBUS.	71	5,083	49	109	100	23	4,802	Ja 5,019 No 4,449	4,719	3,316	1,131	127	145	10,500,715
5	MACON.	70	4,491	29	174	209	32	4,047	Mh 4,516 Se 3,826	4,157	3,596	475	43	43	11,552,192
6	ROME.	50	1,558	19	83	53	14	1,389	Fe 1,543 My 1,299	1,454	1,000	396	40	18	2,604,051
7	WAYCROSS.	27	1,427	21	21	76	7	1,302	Au 1,387 No 1,222	1,244	1,226	15	2	1	538,270

* Owned power only.

* Includes rented power, other than electric.

MANUFACTURES—GEORGIA.

27.

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.							Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.			Primary horsepower.				Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.			Fuel and rent of power.	Total.	Steam engines. ¹	Internal combustion engines. ²		Water wheels and motors. ¹	Electric (rented).

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$102,624	\$85,053	\$357,985	\$17,045	\$36,097	\$8,822	\$428,723	\$14,048	\$1,434,939	\$992,168	554	2	.....	.....	552	10	1
99,424	82,493	357,035	7,645	35,627	8,759	428,473	13,928	1,415,939	973,538	553	2	.....	.....	551	10	2
3,200	2,560	950	9,400	470	63	250	120	19,000	18,630	1	.....	.....	.....	1	.....	3
219,797	521,134	365,259	213,462	44,066	15,907	674,644	14,365	2,878,628	2,189,619	705	.....	.....	.....	705	.....	4
101,951	299,128	199,752	.....	29,396	8,408	412,586	8,949	1,479,841	1,058,306	559	.....	.....	.....	559	.....	5
59,585	105,853	165,507	125	5,145	5,924	235,036	5,416	825,999	585,547	146	.....	.....	.....	146	.....	6
58,261	116,153	.....	213,337	9,525	1,575	27,022	.....	572,788	545,766	.....	.....	.....	.....	.....	.....	7
1,200	925	14,862	.....	1,446	4,180	19,540	128	50,576	30,908	.....	.....	.....	.....	.....	.....	8
445,338	396,605	1,746,374	4,895	70,231	184,742	9,277,314	221,306	15,753,521	6,254,901	13,203	10,848	32	.....	2,413	3,447	9

House-furnishing goods, not elsewhere specified.....	2	Perfumery and cosmetics.....	1	Sausage.....	2	Tools, not elsewhere specified.....	1
Iron and steel, cast-iron pipe.....	1	Photo-engraving.....	2	Show cases.....	1	Toys and games.....	2
Jewelry.....	1	Pickles, preserves, and sauces, preserves.....	2	Soap.....	2	Trunks and valises.....	1
Labels and tags.....	1	Printing and publishing, music.....	1	Stationery goods.....	1	Type founding.....	1
Liquors, malt.....	1	Printing materials.....	1	Statuary and art goods.....	3	Umbrellas and canes.....	1
Models and patterns.....	1	Regalia and society badges and emblems.....	1	Steam packing.....	2	Upholstering materials, excelsior.....	1
Musical instruments, violins, and other stringed.....	1	Roofing materials.....	1	Stereotyping and electrotyping.....	1	Wirework.....	2
Pencils, lead.....	1	Saddlery and harness.....	4	Stoves and hot-air furnaces.....	2	Wood preserving.....	1
				Structural ironwork.....	1	Woolen goods.....	1
				Tobacco, smoking.....	1		

\$248,332	\$276,757	\$1,258,659	\$7,940	\$46,642	\$114,912	\$3,179,847	\$220,331	\$6,709,498	\$3,309,320	6,939	4,651	12	.....	2,276	942	1
.....	720	62,965	.....	6,374	1,875	210,496	8,201	378,632	159,935	108	.....	.....	.....	108	.....	2
15,360	3,945	5,869	.....	480	828	32,232	560	58,489	25,697	6	.....	.....	.....	6	.....	3
15,804	11,683	34,583	483	2,130	592	36,998	480	102,641	65,163	8	.....	.....	.....	8	.....	4
24,758	5,436	109,754	.....	5,362	2,743	62,952	6,664	206,933	197,317	497	130	.....	.....	367	.....	5
3,192	5,380	39,920	.....	1,040	6,466	12,625	69,471	221,050	138,954	1,495	1,460	.....	.....	35	.....	6
.....	.....	45,575	.....	4,256	2,047	173,539	3,165	288,058	111,364	731	435	.....	.....	296	.....	7
20,700	16,660	60,530	150	3,645	45,180	179,886	20,886	591,562	300,790	538	325	.....	.....	213	.....	8
.....	.....	14,174	.....	855	287	6,321	182	25,122	18,619	5	.....	4	.....	1	.....	9
23,679	16,161	78,704	2,702	6,012	1,962	64,188	2,560	250,586	183,838	111	.....	.....	.....	111	.....	10
18,130	58,106	111,442	4,109	2,840	2,729	114,545	3,115	396,588	278,928	242	.....	.....	.....	242	.....	11
15,300	3,260	35,932	3,150	1,940	247	23,551	1,344	126,637	101,742	78	.....	.....	.....	78	.....	12
2,830	54,846	75,510	959	900	2,482	90,994	1,771	269,951	177,186	164	.....	.....	.....	164	.....	13
2,600	.....	40,020	.....	1,436	16,270	70,220	220	133,263	62,814	2	.....	.....	.....	2	.....	14
124,109	158,676	655,123	406	12,212	34,433	2,215,845	104,818	4,086,574	1,765,911	3,196	2,301	8	.....	887	942	15

Clothing, men's.....	2	Food preparations.....	2	Oil, not elsewhere specified.....	1	Printing materials.....	1
Coffee and spice, roasting and grinding	1	Gas, illuminating and heating.....	1	Optical goods.....	1	Saddlery and harness.....	1
Cooperage.....	1	Ink, printing.....	2	Patent medicines and compounds.....	2	Stencils and brands.....	1
Cordage and twine.....	1	Jute goods.....	1	Photo-engraving, not done in printing establishments.....	2	Tinware, not elsewhere specified.....	1
Fertilizers.....	3	Mattresses and spring beds.....	2			Wood, turned and carved.....	1

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

\$99,857	\$49,823	\$458,942	\$25,548	\$14,436	\$20,998	\$1,859,802	\$81,605	\$3,023,492	\$1,082,085	4,303	1,065	.....	400	2,838	36	1
298,967	222,361	1,983,370	2,160	36,977	166,308	8,293,781	238,420	12,138,224	3,606,023	16,549	5,529	48	9,127	1,845	512	2
41,618	16,870	239,463	1,004	5,220	14,242	344,968	18,574	840,833	477,291	2,592	2,247	311	7,925	84	.....	3
213,706	122,282	1,835,488	14,521	26,538	88,846	6,170,406	197,496	10,619,358	4,251,456	16,922	2,495	51	.....	6,451	4,010	4
362,920	230,581	1,801,365	4,229	34,752	151,755	13,655,799	369,581	18,867,439	4,842,059	15,853	8,599	30	.....	7,224	1,956	5
121,685	52,744	538,731	3,103	12,654	26,086	2,148,314	57,916	3,300,894	1,094,664	2,735	2,191	25	.....	519	19	6
30,017	79,796	843,428	3,401	6,041	5,806	1,012,197	28,623	2,085,886	1,045,066	3,339	3,255	15	.....	69	2,185	7

² Same number reported for one or more other months.

⁴ Same number reported for entire year.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
SAM. L. ROGERS, DIRECTOR

CENSUS OF MANUFACTURES
1914

IDAHO

Prepared under the supervision of W. M. STEUART, Chief Statistician for Manufactures

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EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention should be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or whose products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1914, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products very different from those covered by the class designation, and, on the other hand, may not include the total product covered by this designation, because some part of this product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

Selected industries.—The general tables at the end of this bulletin give the principal facts separately for the industries of the state. A selection has been made of the leading industries of the state for more detailed consideration. Sometimes an industry of greater importance than some of those selected is omitted because it comprises so few establishments that these detailed presentations would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice, as a rule, has been followed in compiling the statistics of 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1914, 1909, and 1904, therefore, does not show separately all the industries given for 1914 in the detailed statement for the state.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1914 and 1909 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The average thus obtained approximates the number of wage earners that would be required to perform the work done if all were constantly employed during the entire year. Accordingly, the importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is believed not to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

(2)

In particular, totals by sex and age for the wage earners reported for the representative day for all industries combined would be misleading because of the undue weight given to seasonal industries, in some of which, such as canning and preserving, the distribution of the wage earners by sex and age is materially different from that in most industries of more regular operation. In order to determine as nearly as possible the sex and age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by sex and age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average number of men, women, and children employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month and represent the approximate number who would be required to perform the work in any industry if all were continuously employed during the year, whereas the actual number to whom the total wages were paid would be larger.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, all or practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital.—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the census of 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include internal revenue, corporation income tax, and state, county, and local taxes. In some instances the amount of the corporation tax for 1914 had not been ascertained when the report was prepared and the amount paid for 1913 was therefore given.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture.—The value of products is not a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of interest or depreciation, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use, since in most cases an engine or motor is not required to deliver continuously its full rated horsepower.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, oil, and gas. They relate to the quantity used during the year, which may be more or less than the quantity purchased. As only the principal varieties of fuel are shown, no comparison can be made with the total cost of all fuel.

IDAHO.

By A. J. MATLACK.

GENERAL STATISTICS.

General character of the state.—With a gross area of 83,888 square miles, of which 83,354 represent land surface, Idaho ranks twelfth in size among the states. Its inhabitants in 1900 numbered 161,772, and in 1910, 325,594; and its estimated population in 1914 was 395,407. In total population Idaho ranked forty-fourth among the states in 1910; and in density of population it ranked forty-third, with 3.9 inhabitants per square mile, the corresponding figure for 1900 being 1.9.

The urban population in 1910—that is, the population residing in cities and other incorporated places of 2,500 inhabitants or more—was 69,898, or 21.5 per cent of the total, as against 6.2 per cent in 1900. There were in the state in 1914 two cities each having an estimated population of more than 10,000—Boise and Pocatello. These cities, whose aggregate population in that year formed 10.3 per cent of the estimated population of Idaho, reported 11.4 per cent of the state's manufactured products.

The steam-railroad mileage in 1914, as reported by the Interstate Commerce Commission, was 2,749, and the electric-railway mileage in 1912 (the latest year for which figures are available) was 88.

The total value of all farm crops in 1909 was \$34,357,851, the most important products being hay and forage, wheat, oats, and barley. The northern part of the state receives sufficient rainfall for the growing of most crops without irrigation, while in the southern part the precipitation is much less.

The mineral products of Idaho in 1914, according to the annual report of the United States Geological Survey, were valued at \$24,913,223, of which lead represented \$13,592,517. In the output of this mineral Idaho was exceeded only by Missouri in that year.

Importance and growth of manufactures.—Idaho's manufactured products in 1914 were valued at \$28,453,797, and the average number of wage earners employed in its manufacturing industries was 8,919. In that year the state ranked forty-fourth in the former respect and forty-second in the latter, the same as in 1909.

Table 1 summarizes the more important data relative to all classes of manufactures combined, in the state of Idaho, for the censuses of 1914, 1909, 1904, and 1899, and gives percentages of increase from census to census.

Table 1	MANUFACTURING INDUSTRIES.				PER CENT OF INCREASE. ¹		
	1914	1909	1904	1899	1909-1914	1904-1909	1899-1904
Number of establishments.....	698	725	364	287	-3.7	99.2	26.8
Persons engaged.....	10,529	9,909	3,791	(²)	6.3	161.4	.....
Proprietors and firm members.....	664	831	371	(²)	-20.1	124.0	.....
Salaried employees.....	946	858	359	92	10.3	139.0	.....
Wage earners (average number).....	8,919	8,220	3,061	1,552	8.5	168.5	97.2
Primary horsepower.....	50,326	42,804	16,987	5,649	17.6	152.0	200.7
Capital.....	\$44,960,489	\$32,476,749	\$9,689,445	\$2,130,112	38.4	235.2	354.9
Salaries and wages.....	8,730,809	6,481,702	2,438,702	884,464	34.7	165.8	175.7
Salaries.....	1,240,288	984,055	379,311	66,225	26.0	159.4	472.8
Wages.....	7,490,521	5,497,647	2,059,391	818,239	36.2	167.0	151.7
Paid for contract work.....	562,085	736,018	379,986	(²)	-23.6	93.7	.....
Rent and taxes (including internal revenue).....	548,166	428,135	138,419	(²)	28.0	.....	.....
Cost of materials.....	14,892,094	9,920,017	4,068,523	1,438,868	50.1	143.8	182.8
Value of products.....	28,453,797	22,399,860	8,768,748	3,001,442	27.0	155.5	192.2
Value added by manufacture (value of products less cost of materials).....	13,561,703	12,479,843	4,700,220	1,562,574	8.7	165.5	200.8

¹ A minus sign (—) denotes decrease; percentages are omitted where base is less than 100, or where comparable figures can not be given.

² Figures are not available.

³ Exclusive of internal revenue.

There was a decrease in the number of establishments and of proprietors and firm members during the period from 1909 to 1914. This decrease is due primarily to the number of small lumber mills that discontinued operation during that period. All the other items, except contract work, show considerable increases. In 1914 the state had 698 manufacturing establishments, which gave employment to an average of 10,529 persons during the year and paid out

\$8,730,809 in salaries and wages. The value added by manufacture was \$13,561,703, which figure, as explained in the "Explanation of terms," best represents the net wealth created by manufacturing operations during the year.

It is interesting to note that the percentages of increase for Idaho for the period 1909-1914 are greater in all important respects than the corresponding ones for the United States as a whole. The per-

centages of increase reported for Idaho's wage earners, wages, and value of products for that period, were 8.5, 36.2, and 27, respectively; whereas the corresponding percentages for the United States as a whole were only 6.4, 19, and 17.3, respectively. To a large extent, the manufacturing industries of the state depend upon the products of its soil. Lumber and timber furnished

the raw material for 46.8 per cent of the total value of products in 1914, while flour-mill and gristmill products contributed more than one-fifth of the remainder.

Table 2 shows the relative importance of the leading manufacturing industries in 1914, and gives percentages of increase for the three five-year periods from 1899 to 1914.

Table 2	INDUSTRY.	CENSUS OF 1914.						PER CENT OF INCREASE. ¹									
		Number of establishments.	Wage earners.		Value of products.		Value added by manufacture.		Wage earners (average number).			Value of products.			Value added by manufacture.		
			Average number.	Per cent distribution.	Amount.	Per cent distribution.	Amount.	Per cent distribution.	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904
All industries.....	698	8,919	100.0	\$28,453,797	100.0	\$13,561,703	100.0	8.5	168.5	97.2	27.0	155.4	192.2	8.7	165.5	200.9	
Lumber and timber products.....	159	6,019	67.5	13,328,743	46.8	7,226,376	53.3	15.5	259.7	96.6	24.7	240.2	232.5	-1.6	228.4	204.2	
Flour-mill and gristmill products.....	71	188	2.1	3,395,942	11.9	668,910	4.9	50.4	.....	.....	36.9	56.6	115.8	47.0	69.1	66.0
Cars and general shop construction and repairs by steam-railroad companies.....	7	977	11.0	2,033,635	7.1	1,153,643	8.5	15.1	19.1	78.7	48.9	49.5	74.4	63.2	20.2	80.7	
Butter, cheese, and condensed milk.....	28	88	1.0	1,395,719	4.9	231,214	1.7	-25.4	.....	.....	57.9	414.0	48.3	13.8	463.9	16.1
Printing and publishing.....	173	487	5.5	1,342,667	4.7	1,036,597	7.6	4.1	.....	.....	17.0	.....	.....	14.6	.....	.....
Slaughtering and meat packing.....	9	81	0.9	981,115	3.5	266,619	2.0	.....	.....	.....	84.4	234.6	.....	229.6	107.7	.....
Bread and other bakery products.....	65	104	1.2	546,752	1.9	264,208	1.9	.....	.....	.....	38.8	164.4	.....	48.3	196.7	.....
Liquors, malt.....	5	44	0.5	374,683	1.3	251,770	1.9	.....	.....	.....	-46.3	130.4	304.0	-45.7	102.6	308.9
All other industries.....	181	931	10.4	5,054,541	17.8	2,462,366	18.2	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Percentages are based on figures in Table 22; a minus sign (—) denotes decrease; percentages are omitted where base is less than 100, or where comparable figures can not be given.

Separate statistics are presented for eight industries, or industry groups, for each of which manufactured products valued at more than \$300,000 were reported for 1914. These industries include one with products exceeding \$10,000,000, four with products between \$1,000,000 and \$5,000,000, and three with products valued at less than \$1,000,000. Among the industries included under the head of "all other industries," are the following, which report products of considerable value: Agricultural implements; beet sugar; canning and preserving, fruits and vegetables; confectionery; foundry and machine-shop products; gas, illuminating and heating; manufactured ice; saddlery and harness; and tobacco manufactures.

The industries in this table are arranged in the order of their importance as shown by value of products, but the arrangement would vary considerably if based on average number of wage earners or value added by manufacture. Lumber and timber products is the only industry which ranks alike in all three respects. Flour-mill and gristmill products, second in value of products, was fourth in average number of wage earners and value added by manufacture, while cars and general shop construction and repairs by steam-railroad companies, third in value of products, ranked second in average number of wage earners and value added by manufacture. Butter, cheese, and condensed milk, fourth in value of products, was sixth in average number of wage earners and held the lowest rank in value added by manufacture. Printing and publishing, fifth in value of products, was third in average number of wage earners and value added by manufacture. Slaughtering and meat packing, sixth in value of products, ranked fifth in value added by manufacture and seventh in average number of wage

earners. Bread and bakery products and malt liquors ranked seventh and eighth, respectively, in value of products, fifth and eighth in average number of wage earners, but sixth and seventh in value added by manufacture.

The three most important industries shown in the table, in respect to value of products, lumber and timber products, flour-mill and gristmill products, and cars and general shop construction and repairs by steam-railroad companies, retain the rank they held in 1909. Butter, cheese, and condensed milk, printing and publishing, and malt liquors ranking fourth, fifth, and eighth in 1914, were fifth, fourth, and sixth, respectively, in 1909.

Lumber and timber products.—This industry embraces the operations of logging camps, sawmills, and planing mills. An increase is shown in the five-year period 1909-1914 of 15.5 per cent in the average number of wage earners and of \$2,640,000, or 24.7 per cent, in value of products. The percentage of increase in value of products during the ten years from 1904 to 1914 was 324.2.

Flour-mill and gristmill products.—This industry, which excludes custom mills grinding for toll or local consumption, shows marked increases in average number of wage earners, value of products, and value added by manufacture. During the five-year period 1909-1914 the increases for these items were 50.4 per cent, 36.9 per cent, and 47 per cent, respectively.

Cars and general shop construction and repairs by steam-railroad companies.—This industry represents the work done in the car shops of steam-railroad companies, excluding minor repairs in roundhouses. The operations are practically confined to repairs on rolling stock and equipment, although some new con-

struction of rolling stock may be included. The industry shows an increase of 48.9 per cent in value of products for the five-year period ending in 1914 and 122.5 per cent for the decade. In 1914 employment was given to an average of 977 wage earners, or 11 per cent of the total for the state, and the value of products, \$2,033,635, represents 7.1 per cent of the corresponding total for all industries.

Butter, cheese, and condensed milk.—A marked increase for the period 1904–1909 is shown for this industry in average number of wage earners, value of products, and value added by manufacture. For the period 1909–1914 the value of products shows an increase of 57.9 per cent and value added by manufacture, 13.8 per cent, while the average number of wage earners decreased 25.4 per cent. This decrease is due in part to the increase in the use of machinery as shown by the amount of power reported. Table 22 shows an increase in primary horsepower from 260 in 1909 to 857 in 1914.

Printing and publishing.—A steady advance for each period from 1904 to 1914 is shown for this industry in number of establishments, average number of wage earners, value of products, and value added by manufacture. Figures for 1909 include book-binding and blank-book making, but such establishments were excluded in 1914, in order to avoid disclosures, and the data for the two censuses are, therefore, not strictly comparable.

Slaughtering and meat packing.—The highest percentages of increase from 1909 to 1914 for the industries covered by this table are shown for slaughtering and meat packing. The increase in value of products for the period was 84.4 per cent and in value added by manufacture, 229.6 per cent.

Persons engaged in manufacturing industries.—Table 3 shows, for 1909 and 1914, the number of persons engaged in manufactures, distributed by sex,

the average number of wage earners being distributed also by age. The sex and age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms."

Table 3

CLASS.	Census year.	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES.				
		Total.	Male.	Female.	Per cent of total.	
					Male.	Female.
All classes.....	1914	10,529	10,220	309	97.1	2.9
	1909	9,909	9,646	263	97.3	2.7
Proprietors and officials.....	1914	1,026	1,002	24	97.7	2.3
	1909	1,187	1,163	24	98.0	2.0
Proprietors and firm members...	1914	664	644	20	97.0	3.0
	1909	831	811	20	97.6	2.4
Salaried officers of corporations...	1914	83	80	3	96.4	3.6
	1909	108	104	4	96.3	3.7
Superintendents and managers...	1914	279	278	1	99.6	0.4
	1909	248	248	.....	100.0	.....
Clerks and other subordinate salaried employees.	1914	584	490	94	83.9	16.1
	1909	502	418	84	83.3	16.7
Wage earners (average number).....	1914	8,919	8,728	191	97.9	2.1
	1909	8,220	8,065	155	98.1	1.9
16 years of age and over.....	1914	8,865	8,681	184	97.9	2.1
	1909	8,190	8,035	155	98.1	1.9
Under 16 years of age.....	1914	54	47	7	87.0	13.0
	1909	30	30	.....	100.0	.....

In 1914 the number of persons engaged in manufactures was 10,529, of whom 8,919, or 84.7 per cent, were wage earners, 1,026 were proprietors and officials, and 584 were clerks and other subordinate salaried employees. Of the wage earners, 16 years of age and over, 8,681, or 97.9 per cent, were males, and 184, or 2.1 per cent, were females. Figures for the sex and age distribution of wage earners for individual industries will be found in Table 23.

Table 4 gives, for the several classes of persons engaged in manufactures, the percentages of increase from 1909 to 1914, and the per cent distribution at the two censuses.

Table 4

Table 4	CLASS.	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES.								
		Per cent of increase, ¹ 1909-1914.			Per cent distribution.					
		Total.	Male.	Female.	Total.		Male.		Female.	
					1914	1909	1914	1909	1914	1909
All classes.....	6.3	6.0	17.5	100.0	100.0	100.0	100.0	100.0	100.0	
Proprietors and officials.....	-13.6	-13.8	.....	9.7	12.0	9.8	12.1	7.8	9.1
Proprietors and firm members.....	-20.1	-20.6	.....	6.3	8.4	6.3	8.4	6.5	7.6
Salaried officers of corporations.....	-23.1	-23.1	.....	0.8	1.1	0.8	1.1	1.0	1.5
Superintendents and managers.....	12.5	12.1	.....	2.7	2.5	2.7	2.6	0.3	.....
Clerks and other subordinate salaried employees.....	16.3	17.2	.....	5.5	5.1	4.8	4.3	30.4	31.9
Wage earners (average number).....	8.5	8.2	23.2	84.7	83.0	85.4	83.6	61.8	58.9	
16 years of age and over.....	8.2	8.0	18.7	84.2	82.7	84.9	83.3	59.5	58.9	
Under 16 years of age.....	.....	.....	.....	0.5	0.3	0.5	0.3	2.3	.....

¹ A minus sign (–) denotes decrease; percentages are omitted where base is less than 100.

This table shows an increase during the five-year period 1909–1914 for each of the several classes of employees, with the exception of the number of proprietors and firm members and salaried officers of corporations, which decreased by 20.1 per cent and 23.1 per cent, respectively. The largest percentage of

increase for both sexes combined, 16.3, is shown for clerks and other subordinate salaried employees.

Wage earners 16 years of age and over represented 84.2 per cent of the total number of persons engaged in manufacturing industries in the state in 1914, and 82.7 per cent in 1909.

In order to compare the distribution of persons engaged in manufactures in 1914 with that shown at the census of 1904 it is necessary to use the classification employed at the earlier census. (See "Explanation of terms.") Table 5 makes this comparison according to occupational status.

INDUSTRY.	Census year.	WAGE EARNERS.			
		Average number. ¹	Per cent of total.		
			16 years of age and over.		Under 16 years of age.
			Male.	Female.	
All industries.....	1914	8,919	97.3	2.1	0.6
	1909	8,220	97.7	1.9	0.4
	1904	8,061	95.8	2.9	1.3
Bread and other bakery products.....	1914	104	81.7	16.3	1.9
	1909	83	79.5	20.5	.....
Butter, cheese, and condensed milk.....	1914	88	88.6	9.1	2.3
	1909	118	95.8	4.2	.....
Cars and general shop construction and repairs by steam-railroad companies.....	1914	977	99.8	.....	0.2
	1909	949	100.0	.....	.....
Flour-mill and gristmill products.....	1914	188	98.9	1.1	.....
	1909	125	100.0	.....	.....
Liquors, malt.....	1914	44	97.7	2.3	.....
	1909	74	98.6	1.4	.....
Lumber and timber products.....	1914	6,019	99.8	0.1	(²)
	1909	5,212	99.6	0.3	0.1
Printing and publishing.....	1914	487	82.3	11.1	6.6
	1909	468	85.3	11.1	3.6
Slaughtering and meat packing.....	1914	81	100.0	.....	.....
	1909	39	97.4	2.6	.....
All other industries.....	1914	931	88.6	10.0	1.4
	1909	1,252	94.5	5.0	0.5

¹ For method of estimating the distribution by sex and age periods of the average number for all industries combined, see "Explanation of terms."
² Less than one-tenth of 1 per cent.

For all industries combined, the proportion of male wage earners 16 years of age and over was greater in 1909 than in 1904 or 1914, while the proportion of females and children under 16 years of age decreased materially between 1904 and 1909 but increased somewhat during the next five-year period.

Of the eight industries for which separate figures are given in this table, three show an increase from 1909 to 1914 in the proportion of males and three an increase

in the proportion of females. Three industries, which did not report the employment of children in 1909 reported a small number in 1914, and only one, lumber and timber products, reported a decrease in the number of children employed.

Wage earners employed, by months.—The following table gives, for all industries combined, the total number of wage earners employed on the 15th of each month, or the nearest representative day, for 1914 and 1909, and the average number employed during each month in 1904.

MONTH.	WAGE EARNERS IN MANUFACTURING INDUSTRIES.					
	Number. ¹			Per cent of maximum.		
	1914	1909	1904	1914	1909	1904
January.....	6,915	6,145	2,344	65.3	64.5	61.2
February.....	6,414	6,033	2,161	60.6	63.3	56.5
March.....	7,577	7,270	2,295	71.6	76.3	60.0
April.....	8,738	8,279	2,733	82.6	86.9	71.4
May.....	9,853	8,664	3,214	93.1	91.0	84.0
June.....	10,583	9,929	3,493	100.0	93.7	91.2
July.....	10,368	8,939	3,647	98.0	93.8	95.3
August.....	10,069	8,696	3,421	95.1	91.3	89.4
September.....	10,091	8,690	3,681	95.4	91.2	96.2
October.....	9,831	9,525	3,828	92.9	100.0	100.0
November.....	8,783	8,971	3,374	83.0	94.2	88.1
December.....	7,806	8,507	2,541	73.8	89.3	66.4

¹ The figures for 1914 and 1909 represent the number employed on the 15th of each month, or the nearest representative day; those for 1904, the average number employed during the month.

For 1914 the summer months show the greatest activity in the combined industries of the state, the maximum number of wage earners being reported for June and the minimum for February.

The difference between the maximum and minimum number reported for 1914 was 4,169, or 39.4 per cent of the maximum. The year 1904 showed a corresponding percentage of 43.5; the year 1909, 36.7 per cent.

Table 7 gives the total average number of wage earners employed during 1914, together with the total number employed on the 15th of each month, or the nearest representative day, for the combined industries of the state, for a number of selected industries, and for the total industries of each of the two cities having more than 10,000 inhabitants.

INDUSTRY AND CITY.	Average number employed during year.	WAGE EARNERS: 1914. [The month of maximum employment for each industry is indicated by boldface figures and that of minimum employment by <i>italic</i> figures.]												Per cent minimum is of maximum.
		Number employed on 15th day of the month or nearest representative day.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	8,919	6,915	6,414	7,577	8,738	9,853	10,583	10,368	10,069	10,091	9,831	8,783	7,806	60.6
Bread and other bakery products.....	104	99	99	99	99	100	104	110	109	109	106	107	107	90.0
Butter, cheese, and condensed milk.....	88	74	72	73	85	97	102	107	99	93	89	83	82	67.3
Cars and general shop construction and repairs by steam-railroad companies.....	977	842	826	876	784	765	823	973	1,055	1,162	1,228	1,156	1,234	62.0
Flour-mill and gristmill products.....	188	180	177	180	170	166	159	166	182	207	228	234	207	67.9
Lumber and timber products.....	6,019	4,590	4,089	5,122	6,224	7,316	7,761	7,468	6,978	6,790	6,018	5,326	4,546	52.7
Printing and publishing.....	487	479	488	481	481	473	476	477	490	498	503	496	502	94.0
Total for cities.....	1,130	983	983	1,038	933	921	978	1,148	1,212	1,318	1,398	1,276	1,376	65.9
BOISE.....	348	321	340	357	351	352	364	362	343	364	372	322	331	86.3
POCATELLO.....	782	662	643	681	582	569	614	786	869	954	1,026	954	1,045	84.4

Of the selected industries, lumber and timber shows the greatest degree of fluctuation, the number of wage earners in February being but 52.7 per cent of the number in June. The greatest stability of employment is shown for printing and publishing, for which industry the minimum number formed 94 per cent of the maximum.

Of the two cities, Boise shows the greater stability of employment, the percentage that the number reported for the minimum month (January) formed of the number reported for the maximum month (October) being 86.3, while for Pocatello the corresponding percentage was only 54.4, the number

employed in December being nearly double that of May.

Prevailing hours of labor.—In Table 8 the average number of wage earners reported for 1914 and 1909 for all industries combined and for selected industries throughout the state have been classified according to number of hours of labor per week prevailing in the establishments in which they were employed. A similar classification is given, for 1914 only, for all industries combined in each city having more than 10,000 inhabitants. The number employed in each establishment is classified as a total, even though a few employees worked a greater or less number of hours.

Table 8

INDUSTRY AND CITY.	Census year.	AVERAGE NUMBER OF WAGE EARNERS.							
		Total.	In establishments where the prevailing hours of labor per week were—						
			48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	Over 72.
All industries.....	1914	8,919	586	53	1,328	265	6,223	409	30
	1909	8,220	637	70	1,195	79	5,419	355	63
Bread and other bakery products.....	1914	104	12	.....	31	2	50	4	2
	1909	83	11	.....	12	.....	51	5	4
Butter, cheese, and condensed milk.....	1914	88	2	.....	10	1	46	21	8
	1909	118	4	.....	1	.....	8	100	5
Cars and general shop construction and repairs by steam-railroad companies.....	1914	977	.....	.....	735	206	36	.....	.....
	1909	849	.....	.....	718	.....	2	129	.....
Flour-mill and gristmill products.....	1914	188	.....	.....	11	1	107	65	2
	1909	125	6	.....	.....	2	73	26	18
Lumber and timber products.....	1914	6,019	35	5	79	10	5,780	110	.....
	1909	5,212	31	26	111	.....	4,965	09	10
Printing and publishing.....	1914	487	351	32	68	22	14	.....	.....
	1909	468	309	38	102	.....	16	8	.....
All other industries.....	1914	1,056	186	16	394	23	190	209	17
	1909	1,365	276	6	251	77	304	23	31
Total for cities.....	1914	1,130	208	.....	823	10	29	35	7
BOISE.....	1914	348	190	.....	86	10	20	35	7
POCATELLO.....	1914	782	18	.....	737	.....	9	.....	18

The figures in this table show the tendency toward a shortening of the working day of wage earners in the state as a whole and for the selected industries, noticeably in the class working more than 60 hours per week.

In 1909, 820, or about 10 per cent of the total average number of wage earners for all industries combined, were employed in establishments where the prevailing hours of labor were more than 60 per week, whereas 464, or about 5 per cent, were so employed in 1914. On the other hand, the number of wage earners whose working hours were 60 per week increased from 5,419, or 65.9 per cent of the total for the state, in 1909, to 6,223, or 69.8 per cent of the total, in 1914. During the five-year period there was an increase in the two classes, 54 hours and 54 to 60 hours per week, while the number of wage earners working under 48 hours per week decreased.

In 1914 in printing and publishing 72.1 per cent of the employees were reported by establishments with prevailing hours 48 and under; in cars and general shop

construction and repairs by steam-railroad companies over three-fourths were reported by establishments where the prevailing hours of employment were 54 per week. In lumber and timber mills 96 per cent and in flour-mills and gristmills 56.9 per cent were reported by establishments in which the prevailing hours of labor were 60 per week.

In the city of Pocatello 737, or 94.2 per cent, of its wage earners were employed in establishments in which the prevailing hours of labor were 54 per week; in Boise, 190, or 54.6 per cent, were in establishments in which the hours were 48 and under.

Location of establishments.—Table 9 shows, for 1914, 1909, and 1899, the extent to which the manufactures in Idaho were centralized in the two cities having more than 10,000 inhabitants.

In accepting the statistics in this table it must be remembered that Pocatello, which had a population of 10,000 and over at the census of 1914, was included in the districts outside of the cities at prior censuses.

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Table 9

Table 9	Census year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.						DISTRICTS OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		Number or amount.	Per cent of aggregate.
			Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.		
Number of places.....	1914 1910 1900		2 1		1 1		1			
Population ¹	1914 1910 1900	395,407 325,594 161,772	40,904 17,358	10.3 5.3	11,267 17,358	2.8 5.3	29,637	7.5	354,503 308,236 161,772	89.7 94.7 100.0
Number of establishments.....	1914 1909 1899	698 725 287	76 50	10.9 6.9	19 50	2.7 6.9	57	8.2	622 675 287	89.1 93.1 100.0
Average number of wage earners.....	1914 1909 1899	8,919 8,220 1,552	1,130 411	12.7 5.0	782 411	8.8 5.0	348	3.9	7,789 7,809 1,552	87.3 95.4 100.0
Value of products.....	1914 1909 1899	\$28,453,797 22,399,860 3,001,442	\$3,253,494 1,660,497	11.4 7.4	\$1,876,167 1,660,497	6.6 7.4	\$1,377,327	4.8	\$25,200,303 20,739,363 3,001,442	88.6 92.6 100.0
Value added by manufacture.....	1914 1909 1899	13,561,703 12,479,843 1,562,574	1,791,024 765,909	13.2 6.1	1,012,486 765,909	7.5 6.1	778,538	5.7	11,770,679 11,713,934 1,562,574	86.8 91.9 100.0

¹ Census estimate of population for 1914.

The table shows that for 1914 the two cities, which represented 10.3 per cent of the estimated population of the state, reported 13.2 per cent of the total value added by manufacture, 12.7 per cent of the total average number of wage earners, 11.4 per cent of the total value of products, and 10.9 per cent of the total number of establishments.

Character of ownership.—Table 10 presents statistics concerning the character of ownership, or legal organi-

zation, of manufacturing enterprises. For all industries combined, comparative figures are given for 1914, 1909, and 1904; for selected industries, statistics for 1914 and 1909 are shown; for individual cities, the figures are for all industries combined and relate only to 1914.

In order to avoid disclosing the operations of individual establishments, it is necessary to omit several important industries from this table.

Table 10

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
All industries.....	1914 1909 1904	373 350 170	187 200 105	138 175 89	8,919 8,220 3,061	720 1,237 487	7,238 6,401 2,130	961 582 444	8.1 15.0 15.9	81.2 77.9 69.6	10.8 7.1 14.5	\$28,453,797 22,399,860 3,768,743	\$2,741,997 3,567,130 1,393,488	\$22,699,835 16,982,034 6,136,137	\$3,011,915 1,850,696 1,239,118	9.6 15.9 15.9	79.8 75.8 70.0	10.6 8.3 14.1				
Cars and general shop construction and repairs by steam-railroad companies.	1914 1909	..... .....	7 5	.....	977 849	..... .....	977 849	.....	.....	100.0 100.0	.....	2,033,635 1,366,408	.....	2,033,635 1,366,408	.....	.....	100.0 100.0	.....			
Flour-mill and gristmill products.	1914 1909	19 18	39 24	13 15	188 125	27 32	146 75	15 18	14.4 25.6	77.7 60.0	8.0 14.4	3,395,942 2,479,719	438,224 483,402	2,608,353 1,661,809	349,365 334,508	12.9 19.5	76.8 67.0	10.3 13.5				
Lumber and timber products.	1914 1909	74 113	41 71	44 72	6,019 5,212	240 705	4,996 4,198	783 309	4.0 13.5	83.0 80.5	13.0 5.9	13,328,743 10,689,310	455,814 1,314,217	11,012,573 8,848,878	1,860,356 526,215	3.4 12.3	82.6 82.8	14.0 4.9				
Printing and publishing..	1914 1909	112 67	30 33	31 32	487 468	179 134	246 250	62 84	36.8 28.6	50.5 53.4	12.7 17.9	1,342,667 1,148,033	493,862 328,580	694,683 612,560	154,122 206,893	36.8 28.6	51.7 53.4	11.5 18.0				
Total for cities.....	1914	43	24	9	1,130	109	999	22	9.6	88.4	1.9	3,253,494	374,312	2,721,828	157,354	11.5	83.7	4.8				
BOISE.....	1914	30	18	9	348	93	233	22	26.7	67.0	6.3	1,377,327	288,519	931,454	157,354	20.9	67.6	11.4				
POCATELLO.....	1914	13	6	.....	782	16	766	.....	2.0	98.0	.....	1,876,167	85,793	1,790,374	.....	4.6	95.4	.....			

This table shows, for all industries combined, an increase for each five-year period in the number of establishments under individual ownership and increases from 1904 to 1909 but decreases from 1909 to 1914 for those under other forms of ownership. The greatest proportion of the establishments—over one-half of the total in 1914—is shown for those under individual ownership; but in value of products and average number of wage earners, corporations largely

predominate over all other classes of ownership. In 1914, although only 26.8 per cent of the total number of establishments in the state were under corporate ownership, this class reported 79.8 per cent of the total value of products and 81.2 per cent of the total average number of wage earners. In 1909 and 1904 the corresponding proportions were slightly greater in number of establishments and slightly less in each of the other two items. For both 1914 and 1909 cars

and general shop construction and repairs by steam-railroad companies were operated by corporations exclusively, and the largest proportion of the total value of products for each of the three remaining industries, for which separate statistics are given, is shown for establishments under this class of ownership.

In 1914 the two cities show the majority of establishments under individual ownership, but the largest proportion of wage earners and the total value of products is reported by corporations.

Size of establishments.—The tendency for manufacturing to become concentrated in large establishments, or the reverse, is indicated by the statistics given in Table 11.

For 1914, 54 establishments, or 7.7 per cent of the total number in the state, each reported products ex-

ceeding \$100,000 in value, as compared with 36, or 5 per cent, in 1909, and 15, or 4.1 per cent, in 1904. For 1914 these establishments reported an average of 6,859 wage earners, or 77 per cent of the total for the state, 74.5 per cent of the total value of products, and 72.6 per cent of the total value added by manufacture. The small establishments—those having products less than \$5,000 in value—although representing 42.8 per cent of the total number of establishments, reported only 2.7 per cent of the total value of products and 3.9 per cent of the value added by manufacture. For the establishments having products valued at \$100,000 and over, the proportion of the total shows an increase at each successive census from 41.8 per cent in 1904 to 58.1 per cent in 1909, and to 74.5 per cent in 1914.

Table 11 VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1914	1909	1904	1914	1909	1904	1914	1909	1904	1914	1909	1904
All classes.....	698	725	364	8,919	8,220	3,061	\$28,453,797	\$22,399,860	\$8,768,743	\$13,561,703	\$12,479,843	\$4,700,220
Less than \$5,000.....	299	279	146	276	354	182	777,615	743,265	365,075	526,846	523,258	252,544
\$5,000 to \$20,000.....	252	281	129	828	1,184	546	2,426,365	2,854,751	1,264,213	1,437,559	1,756,615	739,608
\$20,000 to \$100,000.....	93	129	74	956	1,751	1,043	4,061,116	5,785,475	3,470,002	1,757,604	2,771,134	1,766,756
\$100,000 to \$1,000,000.....	51	34	15	4,143	4,931	1,290	15,282,784	13,016,369	3,669,453	6,601,525	7,423,836	1,941,412
\$1,000,000 and over.....	3	2		2,716			5,905,917			3,238,169		
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	42.8	38.5	40.1	3.1	4.3	5.9	2.7	3.3	4.2	3.9	4.2	5.4
\$5,000 to \$20,000.....	36.1	38.8	35.4	9.3	14.4	17.8	8.5	12.7	14.4	10.6	14.1	15.7
\$20,000 to \$100,000.....	13.3	17.8	20.3	10.7	21.3	34.1	14.3	25.8	39.6	13.0	22.2	37.6
\$100,000 to \$1,000,000.....	7.3	4.7	4.1	46.5	60.0	42.1	53.7	58.1	41.8	48.7	59.5	41.3
\$1,000,000 and over.....	0.4	0.3		30.5			20.8			23.9		

† Includes the group "\$1,000,000 and over."

Table 12 gives, for 1914 and 1909, for three of the more important industries, a classification of establishments, wage earners, value of products, and value

added by manufacture, similar to that presented in Table 11 for all industries combined.

Table 12 INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1914	1909	1914	1909	1914	1909	1914	1909	1914	1909	1914	1909	1914	1909	1914	1909
FLOUR-MILL AND GRISTMILL PRODUCTS.....	71	57	100.0	100.0	188	125	100.0	100.0	\$3,395,942	\$2,479,719	100.0	100.0	\$668,910	\$455,121	100.0	100.0
Less than \$5,000.....	13	5	18.3	8.8	8	1	4.3	0.8	34,933	20,714	1.0	0.8	10,380	4,687	1.6	1.0
\$5,000 to \$20,000.....	22	19	31.0	33.3	16	27	8.5	21.6	235,006	255,655	6.9	10.3	60,625	63,097	9.1	13.9
\$20,000 to \$100,000.....	26	28	36.6	49.1	65	72	34.6	57.6	1,106,594	1,484,886	32.6	59.9	254,636	283,255	38.1	62.2
\$100,000 and over.....	10	5	14.1	8.8	99	25	52.7	20.0	2,019,409	718,464	59.5	29.0	343,269	104,082	51.3	22.9
LUMBER AND TIMBER PRODUCTS.....	159	256	100.0	100.0	6,019	5,212	100.0	100.0	13,328,743	10,689,310	100.0	100.0	7,226,376	7,344,532	100.0	100.0
Less than \$5,000.....	74	106	46.5	41.4	98	138	1.6	3.6	180,374	277,081	1.4	2.6	134,272	214,799	1.9	2.9
\$5,000 to \$20,000.....	45	87	28.3	34.0	287	509	4.8	9.8	459,055	838,551	3.4	7.8	352,081	583,597	4.9	8.0
\$20,000 to \$100,000.....	18	46	11.3	18.0	430	1,026	7.1	19.7	840,304	2,051,227	6.3	19.2	561,032	1,378,125	7.8	18.8
\$100,000 and over.....	22	17	13.8	6.6	5,204	3,489	86.5	66.9	11,849,010	7,522,451	88.9	70.4	6,178,991	5,163,011	85.5	70.3
PRINTING AND PUBLISHING.....	173	132	100.0	100.0	487	468	100.0	100.0	1,342,667	1,148,033	100.0	100.0	1,036,597	905,129	100.0	100.0
Less than \$5,000.....	102	73	59.0	55.3	99	79	20.3	16.9	261,273	199,412	19.5	17.4	212,633	154,282	20.5	17.0
\$5,000 to \$20,000.....	63	50	36.4	37.9	199	217	40.9	46.4	532,259	499,726	39.6	43.5	426,466	394,280	41.1	43.6
\$20,000 and over.....	8	9	4.6	6.8	189	172	38.8	36.8	549,135	448,895	40.9	39.1	397,498	356,567	38.3	39.4

† Includes the group "\$1,000,000 and over."

‡ Includes the group "\$100,000 to \$1,000,000."

The industries selected for presentation in this table reflect the same tendency toward concentration into large establishments as that shown in the table for all

industries combined. Lumber and timber mills reported 88.9 per cent of the total value of products manufactured by establishments whose products ex-

ceeded \$100,000, and the output of such establishments represented 59.5 per cent of the total value of products of flour-mills and gristmills. These establishments reported greater proportions of the average number of wage earners, value of products, and value added by manufacture for 1914 than for 1909.

Table 13 presents, for 1914, for all industries combined in each of the two cities having more than 10,000 inhabitants, statistics similar to those given in Table 11 for the state as a whole.

In Pocatello the same tendency toward concentration prevails. The group \$20,000 and over represents 97.3 per cent of the total average number of wage earners, 95.1 per cent of the value of products, and 95.3 per cent of the value added by manufacture, but only 26.3 per cent in number of establishments.

In Boise the group under \$20,000 represented 71.9 per cent of the number of establishments; while the group "\$20,000 and over," with 28.1 per cent of the number of establishments, represented 74.7 per cent of the average number of wage earners, 80.3 per cent of

the value of products, and 79.5 per cent of the value added by manufacture.

Table 13

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
BOISE.....	57	348	100.0	\$1,377,327	100.0	\$778,538	100.0
Less than \$5,000.....	18	14	4.0	45,598	3.3	27,859	3.6
\$5,000 to \$20,000.....	23	74	21.3	225,990	16.4	131,466	16.9
\$20,000 to \$100,000.....	12	149	42.8	591,039	42.9	313,807	40.3
\$100,000 and over.....	4	111	31.9	514,700	37.4	305,406	39.2
POCATELLO.....	19	782	100.0	1,876,167	100.0	1,012,486	100.0
Less than \$5,000.....	7	4	0.5	25,389	1.4	12,903	1.3
\$5,000 to \$20,000.....	7	17	2.2	67,204	3.6	35,058	3.5
\$20,000 and over.....	5	761	97.3	1,783,574	95.1	964,525	95.3

Table 14 shows the size of establishments in 1914, as measured by the average number of wage earners employed, for all industries combined, for six of the more important industries, and for the two cities having more than 10,000 inhabitants.

Table 14

Table 14 INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
			No wage earners.	1 to 5 wage earners.		6 to 20 wage earners.		21 to 50 wage earners.		51 to 100 wage earners.		101 to 250 wage earners.		251 to 500 wage earners.		501 to 1,000 wage earners.		Over 1,000 wage earners.	
			Establishments.	Wage earners (average number).	Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
All industries.....	698	8,919	108	460	926	85	936	19	612	9	643	10	1,493	3	890	3	1,974	1	1,445
Bread and other bakery products.....	65	104	15	48	92	2	12												
Butter, cheese, and condensed milk.....	28	88	3	22	52	3	36												
Cars and general shop construction and repairs by steam-railroad companies.....	7	977		2	9	1	7	1	25	1	72	1	134			1	730		
Flour-mill and gristmill products.....	71	188	6	59	106	6	82												
Lumber and timber products.....	159	6,019	8	91	192	31	319	10	318	4	252	9	1,359	3	890	2	1,244	1	1,445
Printing and publishing.....	173	487	34	125	252	10	95	4	140										
All other industries.....	195	1,056	42	113	223	32	385	4	129	4	319								
Total for cities.....	76	1,130	11	45	167	16	165	3	68							1	730		
BOISE.....	57	348	6	34	138	14	142	3	68										
POCATELLO.....	19	782	5	11	29	2	23									1	730		

Table 15 presents, for 1914, percentages based on the figures in Table 14 and, for 1909, similar percentages for all industries combined and for individual industries in the state as a whole.

Considering the total for all industries, there were 108 establishments in operation during 1914 in which no wage earners were employed. These are small establishments in which the work is done by the proprietors or firm members. In some cases they employ a few wage earners for short periods, but the number is so small and the period so short that in computing the average number, as described in "Explanation of terms," no wage earners could be shown for the establishment.

Of the 698 establishments reported for all industries, 545, or 78.1 per cent, employed on the average

less than 20 wage earners during the year. On the other hand, while these small establishments predominate in number, they gave employment to only 1,862 wage earners, or 20.9 per cent of the total for all establishments. There were only 17 establishments in the state that reported the employment of more than 100 wage earners each, but these establishments gave employment to 5,802, or 65.1 per cent of the total average number of wage earners reported for all establishments. These large establishments are shown only for the manufacture of lumber and for railroad repair shops.

In Boise 80.5 per cent of the wage earners were in establishments employing less than 20 wage earners each, while in Pocatello 93.4 per cent were in the one establishment (railroad repair shop) employing over 500 wage earners.

Table 15

INDUSTRY AND CITY.	Cen- sus year.	PER CENT OF TOTAL AVERAGE NUMBER OF WAGE EARNERS IN ESTABLISHMENTS EMPLOYING SPECIFIED NUMBER.								INDUSTRY AND CITY.	Cen- sus year.	PER CENT OF TOTAL AVERAGE NUMBER OF WAGE EARNERS IN ESTABLISHMENTS EMPLOYING SPECIFIED NUMBER.							
		1 to 5	6 to 20	21 to 50	51 to 100	101 to 250	251 to 500	501 to 1,000	Over 1000			1 to 5	6 to 20	21 to 50	51 to 100	101 to 250	251 to 500	501 to 1,000	Over 1000
All industries.....	1914 1909	10.4 13.4	10.5 15.9	6.9 11.3	7.2 10.4	16.7 8.0	10.0 11.6	22.1 29.4	16.2	Lumber and timber products...	1914 1909	3.2 7.6	5.3 12.2	5.3 12.8	4.2 9.5	22.6 7.0	14.8 18.3	20.7 32.6	24.0
Bread and other bakery prod- ucts.	1914 1909	88.5 80.7	11.5 19.3	.....	.....	.....	.....	.....	.....	Printing and publishing.....	1914 1909	51.7 45.9	19.5 29.5	28.7 12.2	.....	.....	.....	.....	.....
Butter, cheese, and condensed milk.	1914 1909	59.1 24.6	40.9 7.6	.....	67.8	.....	.....	.....	.....	All other industries.....	1914 1909	21.1 20.2	36.5 36.0	12.2 15.2	30.2 7.0	.....	.....	.....	.....
Cars and general shop construc- tion and repairs by steam-rail- road companies.	1914 1909	0.9 0.6	0.7	2.6	7.4 14.8	13.7 .....	.....	74.7 84.6	.....	Total for cities.....	1914	14.8	14.6	6.0	.....	.....	.....	64.6	.....
Flour-mill and gristmill prod- ucts.	1914 1909	56.4 89.6	43.6 10.4	.....	.....	.....	.....	.....	.....	BOISE.....	1914	39.7	40.8	19.5	.....	.....	.....	.....	.....
										POCATELLO.....	1914	3.7	2.9	.....	.....	.....	.....	93.4	.....

Engines and power.—Table 16 shows, for 1914, 1909, and 1904, for all industries combined, the number and total horsepower of engines or motors employed in generating power (including electric motors operated

by purchased current). The table also shows separately the number and horsepower of electric motors operated by current generated by the establishments reporting.

Table 16

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
				Amount.			Per cent distribution.		
	1914	1909	1904	1914	1909	1904	1914	1909	1904
Primary power, total.....	1,314	937	268	50,326	42,804	16,987	100.0	100.0	100.0
Owned.....	440	540	268	40,369	38,178	16,350	80.2	89.2	96.3
Steam engines and turbines.....	353	437	212	38,204	35,529	15,145	76.0	83.0	89.2
Internal-combustion engines.....	55	53	27	431	242	127	0.9	0.6	0.7
Water wheels, turbines, and motors.....	32	50	29	1,674	2,407	1,078	3.3	5.6	6.3
Rented.....	874	397	(¹)	9,957	4,626	637	19.8	10.8	3.7
Electric.....	874	397	(¹)	9,928	4,606	537	19.7	10.8	3.2
Other.....	.....	.....	.....	29	20	100	0.1	(²)	0.6
Electric.....	1,069	608	71	16,120	8,409	1,702	100.0	100.0	100.0
Rented.....	874	397	(¹)	9,928	4,606	537	61.6	54.8	31.6
Generated by establishments reporting.....	195	211	71	6,192	3,803	1,165	38.4	45.2	68.4

¹ Not reported.² Less than one-tenth of 1 per cent.

This table shows an increase in primary power amounting to 7,522, or 17.6 per cent, from 1909 to 1914, more than half of which was due to the increase in rented power. The use of rented power, now almost wholly electric, has greatly increased since 1904, when it represented only 3.7 per cent of the total primary power reported. The increase in the use of electric motors run by current generated within the same establishments, although considerable, has not kept pace with that in rented power. The power of motors operated by current generated in the same establishments represented 68.4 per cent of the total electric power in 1904, but only 38.4 per cent in 1914.

In spite of the general increase in rented power, owned power increased 146.9 per cent during the decade 1904-1914 but only 5.7 per cent during the last five-year period. This was due in part to the fact that some of the large factories have installed electricity as emergency power, while others are using electric power and hold their steam engines in readiness for emergency.

Fuel.—Closely related to the subject of power employed in manufactures is that of the fuel consumed in generating this power or otherwise used in the manufacturing processes.

Table 17 gives, for 1914, the quantity of each kind of fuel used, for which data were obtained, for all industries combined and for selected industries in the state as a whole, and for all industries combined in each of the two cities.

Table 17

INDUSTRY AND CITY.	COAL.				Oil, in- clud- ing gasol- ine (bar- rels).	Gas (1,000 cubic feet).
	An- thra- cite (tons, 2,240 lbs.).	Bitu- minous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	.....	
All industries.....	175	88,222	2,482	2,273	2,256	.....
Bread and other bakery products.....	80	1,141	176	14	197	.....
Brick.....	35	1,149	.....	.....	.....	.....
Butter, cheese, and condensed milk.....	.....	2,903	.....	4	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	.....	23,084	3	.....	.....	.....
Flour-mill and gristmill products.....	.....	635	.....	104	.....	.....
Gas, illuminating and heating.....	.....	7,558	212	1,846	.....	.....
Liquors, malt.....	.....	1,825	.....	.....	.....	.....
Lumber and timber products.....	.....	799	.....	107	.....	.....
Printing and publishing.....	28	762	40	129	1,719	.....
Slaughtering and meat packing.....	.....	702	.....	.....	.....	.....
All other industries.....	32	47,664	2,051	69	340	.....
Total for cities.....	30	26,480	216	1,849	1,282	.....
BOISE.....	30	4,981	146	1	1,096	.....
POCATELLO.....	.....	21,499	70	1,848	186	.....

SPECIAL STATISTICS.

For certain industries the Census Bureau collects, by means of special schedules, details regarding the quantities and cost of materials, the quantities and values of products, and other information for securing which no provision is made on the general schedule. Certain data of this character for three important industries in Idaho are here presented, and also statistics for power laundries.

Butter, cheese, and condensed milk.—The quantity and value of products for 1914, 1909, and 1904 are given in Table 18.

Table 18	1914	1909	1904
Total value.....	\$1,395,719	\$884,066	\$171,844
Butter:			
Pounds.....	2,813,761	2,357,386	671,783
Value.....	\$812,023	\$750,820	\$155,566
Packed solid—			
Pounds.....	666,643	434,063	36,222
Value.....	\$181,128	\$123,352	\$7,569
Prints or rolls—			
Pounds.....	2,147,118	1,923,323	635,561
Value.....	\$630,895	\$627,468	\$147,997
Cheese:			
Pounds.....	750,810	(1)	(1)
Value.....	\$107,732	(1)	(1)
Cream sold:			
Pounds.....	858,541	417,800	14,904
Value.....	\$78,972	\$49,934	\$1,804
All other products, value.....	\$396,992	\$83,312	\$14,474

¹ Included in "all other products" to avoid disclosure of individual operations.

The total value of products for 1914 shows an increase over that of 1904 of \$1,223,875, a gain of 712.2 per cent. Butter, which formed 58.2 per cent of the total value of products in 1914 and 90.5 per cent in 1904, increased 422 per cent in value during the decade. The quantity manufactured increased from 671,783 pounds in 1904 to 2,813,761 pounds in 1914, or 318.8 per cent. The value of butter, \$812,023, as shown in this table, differs from that shown in Table 23, because other products of the butter factories, to the value of \$185,436, are included in the value of products of the industry in the latter tables.

Butter packed solid shows an increase of 630,421 pounds during the decade, and that put up in prints or rolls an increase of 1,511,557. In the manufacture of cheese there was an increase, but comparative figures can not be shown without disclosure of individual operations. A considerable amount of condensed milk was reported for the census of 1914, but neither the quantity nor the value can be shown separately, as to do so would disclose the operations of individual establishments; the value of this product is, therefore, included with "all other products" in the table.

Flour-mill and gristmill products.—Table 19 gives the quantities and values of flour-mill and gristmill products for the last three census years.

Wheat flour is the most important product of this industry in Idaho, and shows substantial gains during the two census periods in quantity and value. In 1914 the value of wheat flour and bran and middlings

together constituted 81.6 per cent of the total value of products, the proportion for wheat flour alone being 66.6 per cent. The production increased, during the period 1909–1914, 48.2 per cent in quantity and 24.3 per cent in value. Feed and offal constitute the next most important product, representing 17.2 per cent of the total value of products in 1914.

Table 19	1914	1909	1904
Total value.....	\$3,395,942	\$2,479,719	\$1,584,473
Wheat flour:			
Barrels.....	571,965	386,022	309,470
Value.....	\$2,261,403	\$1,819,581	\$1,225,672
Barley meal:			
Pounds.....	754,416	40,000	.....
Value.....	\$8,450	\$600	.....
Corn meal and corn flour:			
Barrels.....	5,048	180	800
Value.....	\$18,809	\$1,016	\$2,400
Hominy and grits:			
Pounds.....	127,735	213,340	.....
Value.....	\$3,390	\$5,924	.....
Bran and middlings:			
Tons.....	25,789	.....	.....
Value.....	\$509,407	27,673	20,730
Feed and offal:			
Tons.....	21,879	\$644,133	\$355,124
Value.....	\$585,001	.....	.....
All other products, value.....	\$9,482	\$8,465	\$1,277

Barley meal and corn meal and corn flour showed remarkable gains during the later five-year period, but they constituted a very small proportion of the value of products.

The equipment reported for 1914 consisted of 280 stands of rolls, two runs of stone, and 41 attrition mills. Two establishments manufactured sacks, to be used as containers.

Printing and publishing.—Table 20 gives the number of publications and the aggregate circulation per issue for all newspapers and periodicals published in Idaho during 1914, 1909, and 1904.

Table 20	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1914	1909	1904	1914	1909	1904
PERIOD OF ISSUE.						
Total.....	167	130	95	262,721	140,781	86,965
Daily.....	12	13	6	41,474	28,598	13,675
Sunday.....	8	3	3	34,566	13,864	7,675
Semiweekly.....	18	16	10	9,730	7,185	11,850
Weekly.....	134	108	76	102,226	91,134	53,765
All other classes.....	5	.....	.....	14,725	.....	.....

¹ Includes one triweekly publication.

² Includes one monthly and one semimonthly publication.

From 1909 to 1914 there was an increase in the total number of publications and aggregate circulation. This period shows an increase in each class of publications, except the dailies, the Sunday issues more than doubling, and the weeklies increasing nearly 25 per cent, while the increase in total number of publications was 28.5 per cent.

A large increase is shown in the aggregate circulation, 61.9 per cent, from 1904 to 1909, and 44 per cent from 1909 to 1914. For the period 1909 to 1914 a large increase is shown in the circulation of the follow-

ing publications: Sunday papers, 149.3 per cent, dailies 45 per cent, and semiweeklies (which included one triweekly publication at each census) 35.4 per cent.

Of the daily publications, six were morning newspapers, with a circulation of 23,531. "All other classes" comprised five monthly publications in 1914, but only one monthly and one semimonthly in 1904. All publications were printed in English.

Laundries.—Statistics for power laundries are not included in the general tables or in the total for manufacturing industries. Table 21, however, summarizes these statistics for Idaho for 1914 and 1909.

The table shows increases for all items given, those in receipts for work done and in average number of wage earners amounting to 50.4 per cent and 23.8 per cent, respectively. Establishments owned by individuals reported 51.3 per cent of the amount received

for work done; those owned by corporations, 31.3 per cent; and those under other forms of ownership, 17.4 per cent.

Table 21

	POWER LAUNDRIES.		
	Number or amount.		Per cent of increase, ¹ 1909-1914.
	1914	1909	
Number of establishments.....	86	24	254.2
Persons engaged.....	510	410	24.4
Proprietors and firm members.....	42	31	35.5
Salaried employees.....	26	22	18.2
Wage earners (average number).....	442	357	23.8
Primary horsepower.....	1,033	489	111.2
Capital.....	\$486,600	\$252,110	93.0
Salaries and wages.....	274,938	201,836	36.2
Salaries.....	28,844	22,821	27.5
Wages.....	246,094	179,015	37.3
Paid for contract work.....	3,400	1,200	183.3
Rent and taxes (including internal revenue).....	12,734	7,160	77.8
Cost of materials.....	140,586	94,879	48.2
Amount received for work done.....	592,749	394,226	50.4

¹ Percentages are omitted where base is less than 100.

GENERAL TABLES.

Table 22 gives, for 1914, 1909, and 1904, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products, for selected industries in the state; and for Boise, similar data for all industries combined for 1914 and 1909.

Table 23 presents, for 1914, statistics in detail for each industry in the state that can be shown without the disclosure of operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having more than 10,000 inhabitants.

TABLE 22.—COMPARATIVE SUMMARY FOR 1914, 1909, AND 1904.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Expressed in thousands.			INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Expressed in thousands.		
					Wages.	Cost of ma- terials.	Value of prod- ucts.						Wages.	Cost of ma- terials.	Value of prod- ucts.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1914	698	8,919	50,326	\$7,491	\$14,892	\$28,454	Liquors, malt.....	1914	5	44	398	\$52	\$123	\$375
	1909	725	8,220	42,804	5,498	9,920	22,400		1909	11	74	986	65	234	698
	1904	364	3,061	16,987	2,059	4,069	8,769		1904	14	61	319	54	74	303
Bread and other bakery products.	1914	65	104	90	79	283	547	Lumber and timber prod- ucts.	1914	¹ 159	6,019	34,936	4,911	6,102	13,329
	1909	47	83	35	57	216	394		1909	256	5,212	32,342	3,382	3,845	10,689
	1904	19	33	.....	28	89	149		1904	107	1,449	10,013	876	906	3,142
Brick.....	1914	10	73	763	44	22	95	Marble and stone work....	1914	6	30	120	39	29	91
	1909	36	286	1,050	179	109	444		1909	9	49	159	40	54	123
	1904	19	72	147	45	27	113	Mineral and soda waters..	1914	20	22	42	12	33	81
Butter, cheese, and con- densed milk.	1914	28	88	857	76	1,165	1,396		1909	12	14	22	12	19	71
	1909	18	118	260	77	681	884		1904	6	11	11	6	10	30
	1904	16	13	120	10	136	172	Printing and publishing..	1914	173	487	539	371	306	1,343
Cars and general shop con- struction and repairs by steam-railroad compa- nies.	1914	7	977	3,901	988	880	2,034		1909	² 132	468	388	373	243	1,148
	1909	5	849	755	672	659	1,366		1904	91	258	140	178	107	549
	1904	8	713	965	539	326	914	Saddlery and harness.....	1914	27	19	20	19	114	200
Confectionery.....	1914	8	48	32	20	93	177		1909	20	26	5	23	151	234
	1909	6	24	6	12	56	103	Slaughtering and meat packing.	1914	9	81	227	79	714	981
Flour-mill and gristmill products.	1914	71	188	3,914	155	2,727	3,396		1909	4	39	115	33	451	532
	1909	57	125	3,595	91	2,025	2,480		1904	3	10	22	8	120	159
	1904	28	84	1,963	67	1,315	1,584	Tobacco, cigars.....	1914	29	27	1	19	57	128
Foundry and machine- shop products.	1914	10	78	221	71	65	234		1909	24	80	.....	47	64	171
	1909	14	74	203	71	89	228		1904	17	42	.....	30	43	104
	1904	6	58	145	44	39	115	All other industries.....	1914	57	548	3,219	486	2,104	3,764
Gas, illuminating and heating.	1914	4	44	224	32	52	171		1909	67	645	2,501	323	1,460	2,657
	1909	3	35	27	27	52	113		1904	30	257	3,142	174	877	1,435
Ice, manufactured.....	1914	10	42	822	38	23	112								
	1909	4	19	355	14	12	65								

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

BOISE.....	1914	57	348	1,053	285	599	1,377								
	1909	50	411	672	308	895	1,660								

¹ Includes "lumber, planing-mill products, not including planing mills connected with sawmills."

² Includes "bookbinding and blank-book making."

MANUFACTURES—IDAHO.

TABLE 23.—DETAIL STATEMENT FOR THE STATE, BY INDUSTRIES.

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

1 All industries.....	698	10,529	664	362	490	94	8,919	Je	10,583	Fe	6,414	(3)	(3)	(3)	(3)	(3)	\$44,960,480
2 Artificial stone products.....	4	6	4	.....	.....	.....	2	Jy	5	Ja	0	9	9	.....	.....	.....	19,594
3 Bread and other bakery products.....	65	196	73	4	3	12	104	Jy	110	Ja	99	108	88	18	2	.....	230,055
4 Brick.....	10	88	10	2	3	.....	73	Au	141	Fe	7	116	116	.....	.....	.....	179,218
5 Butter.....	23	103	7	11	16	7	62	Jy	77	Mh	49	63	57	4	2	.....	387,829
6 Canning and preserving, fruits and vegetables.....	5	78	2	4	2	.....	70	Je	218	Ap	2	312	67	220	2	23	73,891
7 Cars and general shop construction and repairs by steam-railroad companies.....	7	1,053	.....	46	30	.....	977	De	1,234	My	765	1,248	1,245	.....	3	.....	2,266,435
8 Confectionery and ice cream.....	13	83	12	7	8	3	58	.....	.....	.....	.....	83	36	46	1	.....	157,532
9 Confectionery.....	8	71	7	7	8	1	48	Oc	78	Au	33	72	30	41	1	.....	142,057
10 Ice cream.....	5	17	5	.....	.....	2	10	Jy	11	De	9	11	6	5	.....	.....	14,875
11 Copper, tin, and sheet-iron work.....	5	12	4	.....	.....	.....	8	Ap	9	De	7	7	6	.....	1	.....	13,840
12 Flour-mill and gristmill products.....	71	314	50	33	35	8	188	No	234	Je	159	220	218	2	.....	.....	2,088,502
13 Foundry and machine-shop products.....	10	100	9	5	7	1	78	Je	87	No	67	77	74	.....	3	.....	232,756
14 Gas, illuminating and heating.....	4	54	.....	4	2	4	44	Jy	49	Se	37	40	39	1	.....	.....	1,440,017
15 Ice, manufactured.....	10	53	2	7	1	1	42	Se	64	Fe	28	35	33	2	.....	.....	477,930
16 Liquors, malt.....	5	60	2	9	3	2	44	Jy	58	Fe	34	40	39	1	.....	.....	736,828
17 Lumber and timber products.....	143	6,500	159	116	233	24	5,968	Je	7,706	Fe	4,038	6,321	6,308	10	2	1	26,155,682
18 Lumber, planing-mill products.....	16	73	16	2	1	3	51	Jy	55	De	40	45	45	.....	.....	.....	231,051
19 Marble and stone work.....	6	47	6	1	9	1	30	Jy	42	De	4	40	40	.....	.....	.....	90,292
20 Mineral and soda waters.....	20	52	26	2	2	.....	22	Se	30	Ja	14	30	24	3	3	.....	87,861
21 Printing and publishing, book and job.....	22	100	20	10	4	4	62	Fe	70	Je	57	64	56	7	1	.....	198,030
22 Printing and publishing, newspapers and periodicals.....	151	694	151	33	67	18	425	.....	.....	.....	.....	446	364	49	32	1	1,027,968
23 Printing, publishing, and job printing.....	142	683	144	33	64	17	425	Oc	442	My	414	446	364	40	32	1	1,020,031
24 Publishing without printing.....	9	-11	7	.....	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,037
25 Saddlery and harness.....	27	54	35	.....	.....	.....	19	Au	21	Ja	15	24	24	.....	.....	.....	175,268
26 Slaughter and meat packing.....	9	107	4	11	11	.....	81	Au	85	De	76	78	78	.....	.....	.....	520,522
27 Tobacco, cigars.....	29	65	34	3	1	.....	27	Ja	32	Jy	24	34	30	4	.....	.....	51,686
28 All other industries*.....	43	632	38	52	52	6	484	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,516,207

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

1 BOISE.....	57	522	46	37	69	22	348	Oc	372	Ja	321	388	327	60	1	.....	\$2,424,834
2 POCATELLO.....	19	876	18	39	31	6	782	De	1,045	My	569	1,045	1,038	4	5	.....	2,212,900

* Owned power only.

* Includes rented power, other than electric.

* No figures given for reasons stated under "Explanation of terms."

*All other industries embrace—
 Agricultural implements.....
 Automobile bodies and parts.....
 Awnings, tents, and sails.....
 Bookbinding and blank-book making.....

Boxes, wooden packing.....
 Brooms.....
 Cars and general shop construction and repairs by electric-railroad companies.....
 Cheese.....

Coffee, roasting and grinding.....
 Condensed milk.....
 Dairywomen's, poultrymen's, and apiarists' supplies.....
 Engines, steam, gas, and water.....
 Flavoring extracts.....

MANUFACTURES—IDAHO.

15

AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914.

EXPENSES.							Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.			Primary horsepower.					Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.			Fuel and rent of power.	Total.	Steam engines. ¹	Internal combustion engines. ²	Water wheels and motors. ¹		Electric (rented).

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

\$668,457	\$571,831	\$7,490,521	\$562,085	\$119,198	\$428,968	\$14,420,162	\$471,932	\$28,453,797	\$13,561,703	50,326	38,264	460	1,674	9,928	6,192	1
5,260	5,439	1,040	956	24,123	133	2,713	66	11,913	9,134	30	7	5	50	30	5	2
3,600	1,545	43,918	560	100	2,284	266,661	15,883	546,752	204,208	90	250	18	50	78	390	3
16,201	14,684	48,993	105	6,019	1,087	8,739	12,911	94,950	73,300	763	87	110	50	463	21	4
3,658	638	17,218	760	760	2,379	817,033	15,154	997,459	165,272	495	110	110	50	390	21	5
					286	57,571	1,479	125,623	66,573	131						6
64,297	30,331	987,662	416		7,353	842,265	37,727	2,033,635	1,153,643	3,901	1,170	4		2,727	100	7
8,958	9,121	25,913		10,458	1,153	104,655	2,861	211,768	104,252	44				44		8
8,958	8,011	19,687		6,138	894	90,379	2,353	177,298	84,566	32				32		9
	1,110	6,226		4,320	259	14,276	508	34,470	19,686	12				12		10
		6,765		785	20	14,678	26	31,570	16,866	6						11
51,068	44,363	154,742		3,622	24,363	2,672,624	54,408	3,395,942	668,910	3,914	190	83	1,254	2,387		12
9,031	9,786	71,149		520	5,593	59,064	6,155	233,813	168,594	221	20			201		13
8,925	6,376	31,885			4,780	7,332	44,616	171,299	119,351	224	220			4		14
12,275	1,992	37,683		60	4,097	6,436	16,887	112,440	89,117	822	125			697		15
18,600	6,690	51,905			36,687	107,850	15,063	374,683	251,770	398	190			208		16
290,704	291,456	4,867,855	535,860	1,787	263,311	6,023,514	16,180	13,180,139	7,140,445	34,582	33,223	227	365	767	5,972	17
2,175	3,180	43,584		615	2,573	57,364	5,309	148,604	85,931	354	50	9		295		18
2,100	5,201	39,073	305	880	840	27,075	1,928	91,499	62,496	120				120		19
1,524	950	11,970	300	2,144	954	31,989	1,465	80,869	47,415	42	4	8		30		20
12,650	6,030	51,612	1,647	9,204	2,183	41,963	2,126	186,124	142,035	56				56	2	21
57,789	69,011	318,941	18,168	36,080	10,387	238,736	23,245	1,156,543	894,562	483		63	5	415		22
57,789	68,099	318,941	4,201	35,135	10,362	238,486	23,245	1,130,724	868,993	483		63	5	415		23
	912		13,967	945	25	250		25,819	25,569							24
		18,644		6,040	2,189	112,425	1,360	200,030	86,245	20				20	1	25
16,725	11,937	78,889		4,800	2,835	704,788	9,708	981,115	266,619	227	26			201		26
1,720	693	19,409	70	2,950	6,680	56,974	425	127,766	70,367	1				1		27
81,197	52,408	483,104	2,123	8,251	46,801	2,157,713	186,950	3,959,261	1,614,598	3,402	2,592	37		773	112	28

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

\$58,503	\$71,015	\$284,733	\$2,752	\$27,157	\$25,881	\$552,410	\$46,379	\$1,377,327	\$778,538	1,053	75			973		1
58,441	34,638	731,702		7,750	10,446	826,758	36,923	1,876,167	1,012,486	3,823	1,120			2,708	5	2

¹ None reported for one or more other months.

² Same number reported for one or more other months.

Food preparations.....	1	Mattresses and spring beds.....	1	Sugar, beet.....	4
Fur goods.....	1	Optical goods.....	1	Vinegar.....	2
Furniture, store and office fixtures.....	1	Sand-lime brick.....	2	Washing machines and clothes wringers.....	1
Hardware, saddlery.....	1	Shipbuilding, wooden, including boat building.....	1	Wooden goods, not elsewhere specified.....	1
Lime.....	3	Soap.....	1		

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

SAM. L. ROGERS, DIRECTOR

CENSUS OF MANUFACTURES 1914

ILLINOIS

Prepared under the supervision of W. M. STEUART, Chief Statistician for Manufactures

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WASHINGTON
GOVERNMENT PRINTING OFFICE
1917

EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention should be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or whose products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1914, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products very different from those covered by the class designation, and, on the other hand, may not include the total product covered by this designation, because some part of this product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

Selected industries.—The general tables at the end of this bulletin give the principal facts separately for the industries of the state. A selection has been made of the leading industries of the state for more detailed consideration. Sometimes an industry of greater importance than some of those selected is omitted because it comprises so few establishments that these detailed presentations would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice, as a rule, has been followed in compiling the statistics of 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1914, 1909, and 1904, therefore, does not show separately all the industries given for 1914 in the detailed statement for the state.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1914 and 1909 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The average thus obtained approximates the number of wage earners that would be required to perform the work done if all were constantly employed during the entire year. Accordingly, the importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is believed not to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

In particular, totals by sex and age for the wage earners reported for the representative day for all industries combined would be misleading because of the undue weight given to seasonal industries, in some of which, such as canning and preserving, the distribution of the wage earners by sex and age is materially different from that in most industries of more regular operation. In order to determine as nearly as possible the sex and age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by sex and age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average number of men, women, and children employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month and represent the approximate number who would be required to perform the work in any industry if all were continuously employed during the year, whereas the actual number to whom the total wages were paid would be larger.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, all or practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital.—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the census of 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include internal revenue, corporation income tax, and state, county, and local taxes. In some instances the amount of the corporation tax for 1914 had not been ascertained when the report was prepared and the amount paid for 1913 was therefore given.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture.—The value of products is not a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of interest or depreciation, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use, since in most cases an engine or motor is not required to deliver continuously its full rated horsepower.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, oil, and gas. They relate to the quantity used during the year, which may be more or less than the quantity purchased. As only the principal varieties of fuel are shown, no comparison can be made with the total cost of all fuel.

ILLINOIS.

By GEORGE H. VAN EMON.

GENERAL STATISTICS.

General character of the state.—Illinois was admitted to the Union as a state in 1818. With a gross area of 56,665 square miles, of which 56,043 represent land surface, it ranks twenty-third in size among the states. Its inhabitants in 1900 numbered 4,821,550, and in 1910, 5,638,591; and its estimated population in 1914 was 5,987,000. In total population Illinois ranked third among the states in 1910; and in density of population it ranked tenth, with 100.6 inhabitants per square mile, the corresponding figure for 1900 being 86.1.

The urban population in 1910—that is, the population residing in cities and towns of 2,500 or more—was 3,476,929, or 61.7 per cent of the total, as against 54.3 per cent in 1900. There were in the state in 1914, 36 cities, estimated to have a population of more than 10,000 each. One of these, Chicago, was estimated to have 2,397,600 inhabitants, or 40 per cent of the estimated population of the state in 1914, and reported 66 per cent of the total value of its manufactures; 14 others had 25,000 but less than 100,000, and the remaining 21 had between 10,000 and 25,000 each. Statistics for Cicero have been excluded from manufactures' data, in order to avoid the disclosure of individual operations. The aggregate population in 1914, of the 35 cities for which data can be shown, formed 54.7 per cent of the estimated population of the state in that year and reported 82 per cent of its manufactured products.

The transportation facilities of Illinois are excellent. A number of the railway trunk lines of the country enter or pass through it. The state had approximately 12,140 miles of steam railroad in 1914 and 2,898 single-track miles of electric railroad in 1912, the latest year for which figures are available. In addition to the ample railway facilities, the state has the advantage of cheap water transportation afforded by the Mississippi and its tributaries and by the Great Lakes.

The value of farm property in Illinois in 1910 was \$3,905,321,075, and in this item the state ranked first. The total value of its farm crops in 1909 was \$372,270,470, of which \$198,350,496 was contributed by corn alone; \$59,693,819, by oats; and \$38,000,712, by wheat; the value of domestic animals sold or slaughtered on farms during the year was \$147,060,674. The state ranks first in aggregate value of farm

crops, first in production of corn and oats, sixth in that of wheat, and third in value of domestic animals sold or slaughtered on farms.

The total output of the mines, quarries, and wells of Illinois in 1914, according to the annual report of the United States Geological Survey, was valued at \$117,145,108, the leading mineral products being coal, petroleum, clay products, and cement. The state ranked third in that year in total value of mineral products and in output of coal and petroleum.

The value of merchandise imported during the fiscal year 1914 through the port of Chicago, was \$38,630,903, and the value of merchandise exported from that city during the same year was \$8,687,501.

Importance and growth of manufactures.—Measured by the value of its manufactures, \$2,247,322,819, Illinois ranked third among the states in 1914. Its factories gave employment to 506,943 wage earners on the average during the year, and the state ranked fifth in this respect. In 1909 the state held third place in value of products and fourth in average number of wage earners. Illinois' proportion of the total value of products manufactured in the United States in 1914 was 9.3 per cent, the corresponding proportions for 1909 and 1904 being 9.3 per cent and 9.5 per cent, respectively.

Table 1 summarizes the more important data relative to all classes of manufactures combined in the state, for the censuses 1914, 1909, 1904, and 1899, and gives the percentages of increase from census to census.

While the manufactures of the state increased during each of the three five-year periods shown in Table 1, the greatest development occurred during the period from 1904 to 1909. The only decrease shown is for the number of proprietors and firm members during the last five years.

As measured by the capital, horsepower, amount paid in salaries and wages, cost of materials, and value of products, the manufactures of the state more than doubled during the 15 years covered by the table. The totals do not include statistics for the arsenal at Rock Island operated by the Federal Government. In 1914 this plant employed an average of 1,906 wage earners, and the value of products was \$3,700,291, as compared with 1,698 wage earners and products valued at \$3,114,338 in 1909. The products consisted chiefly of infantry, cavalry, and artillery equipment.

MANUFACTURES—ILLINOIS.

Table 1

	MANUFACTURING INDUSTRIES.				PER CENT OF INCREASE. ¹		
	1914	1909	1904	1899	1909-1914	1904-1909	1899-1904
Number of establishments.....	18,388	18,026	14,921	14,374	2.0	20.8	3.8
Persons engaged.....	617,927	561,044	447,947	(²)	10.1	25.2	.....
Proprietors and firm members.....	15,854	17,357	13,990	(²)	-8.7	24.1	.....
Salaried employees.....	95,130	77,923	54,521	40,964	22.1	42.9	33.1
Wage earners (average number).....	506,943	465,764	379,436	332,871	8.8	22.8	14.0
Primary horsepower.....	1,305,930	1,013,071	741,555	559,347	28.9	36.6	32.6
Capital.....	\$1,943,835,846	\$1,548,170,701	\$975,844,799	\$732,829,771	25.6	58.6	33.2
Salaries and wages.....	469,387,910	364,768,119	288,965,146	199,653,424	28.7	35.6	34.7
Salaries.....	128,477,585	91,449,114	60,559,678	40,549,245	40.5	51.0	49.4
Wages.....	340,910,325	273,319,005	208,405,468	159,104,179	24.7	31.1	31.0
Paid for contract work.....	18,864,010	13,625,794	11,473,474	(²)	38.4	18.8	.....
Rent and taxes (including internal revenue).....	75,935,987	68,176,760	11,836,006	(²)	11.4	.....	.....
Cost of materials.....	1,340,183,407	1,160,926,690	840,057,316	681,450,122	15.4	38.2	23.3
Value of products.....	2,247,322,819	1,919,276,594	1,410,342,129	1,120,868,308	17.1	36.1	25.8
Value added by manufacture (value of products less cost of materials).....	907,139,412	758,349,904	570,284,813	439,418,186	19.6	33.0	29.8

¹ A minus sign (-) denotes decrease.² Figures not available.³ Exclusive of internal revenue.

Table 2 shows the relative importance and growth of the leading manufacturing industries in 1914 and gives the percentages of increase for the three five-year periods from 1899 to 1914.

Table 2

INDUSTRY.	CENSUS OF 1914.						PER CENT OF INCREASE. ¹									
	Number of establishments.	Wage earners.		Value of products.		Value added by manufacture.		Wage earners (average number).			Value of products.			Value added by manufacture.		
		Average number.	Per cent distribution.	Amount.	Per cent distribution.	Amount.	Per cent distribution.	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904
All industries.....	18,388	506,943	100.0	\$2,247,322,819	100.0	\$907,139,412	100.0	8.8	22.8	14.0	17.1	36.1	25.8	19.6	33.0	29.8
Slaughtering and meat packing.....	98	31,627	6.2	489,230,324	21.8	77,215,741	8.5	18.4	-1.5	-3.1	25.6	22.4	10.2	69.3	21.3	-9.3
Foundry and machine-shop products.....	1,371	55,261	10.9	141,328,624	6.3	80,722,363	8.9	5.7	22.6	7.8	2.0	46.0	16.1	8.0	35.6	26.5
Printing and publishing.....	2,722	32,838	6.5	112,833,427	5.0	70,555,812	8.8	14.6	25.5	12.5	29.3	40.1	43.8	27.2	38.2	40.9
Clothing, men's, including shirts.....	604	35,119	6.9	89,144,448	4.0	47,833,982	5.3	-2.9	69.3	26.7	-0.4	57.0	43.6	8.1	52.7	42.7
Agricultural implements.....	73	19,556	3.9	65,337,663	2.9	32,460,102	3.6	1.6	25.3	-15.8	14.1	49.1	-8.6	(²)	57.0	-10.8
Iron and steel, steel works and rolling mills.....	25	15,408	3.0	64,995,121	2.9	25,057,057	2.8	-12.4	6.9	20.7	-25.0	44.3	32.9	-17.5	42.1	41.3
Cars, steam-railroad, not including operations of railroad companies.....	23	18,000	3.6	61,315,638	2.7	20,886,871	2.3	64.5	21.1	-3.0	127.1	-12.7	24.5	79.0	19.6	25.5
Liquors, distilled.....	7	855	0.2	51,596,022	2.3	42,989,814	4.7	14.0	8.4	104.7	-6.5	2.0	41.6	-6.5	-3.0	38.4
Flour-mill and gristmill products.....	406	2,398	0.5	49,493,224	2.2	6,552,317	0.7	-2.7	2.2	22.6	-3.2	28.1	39.6	20.5	11.3	30.4
Electrical machinery, apparatus, and supplies.....	142	16,483	3.3	45,667,456	2.0	26,288,292	2.9	71.0	57.3	1.4	70.2	60.6	37.2	99.2	45.8	20.8
Bread and other bakery products.....	2,278	10,404	2.1	45,250,060	2.0	21,611,189	2.4	20.8	16.1	33.4	25.3	38.1	64.7	48.9	22.3	54.4
Lumber and timber products.....	618	14,870	2.9	42,064,008	1.9	17,939,874	2.0	-10.2	9.5	27.4	-6.4	37.3	41.2	1.4	21.8	43.0
Cars and general shop construction and repairs by steam-railroad companies.....	94	28,682	5.7	41,496,130	1.8	23,177,666	2.6	24.0	21.1	38.3	28.8	26.4	53.7	36.4	28.5	59.4
Liquors, malt.....	89	5,749	1.1	39,435,995	1.8	29,029,593	3.2	30.7	9.1	23.4	38.6	19.6	20.5	35.6	15.7	18.0
Furniture and refrigerators.....	283	13,766	2.7	32,999,567	1.5	17,286,793	1.9	1.4	9.2	24.6	18.3	24.6	43.3	12.3	21.0	45.1
Gas, illuminating, and heating.....	75	3,890	0.8	28,170,560	1.3	20,135,071	2.2	-38.3	112.6	25.0	33.8	31.5	82.4	35.7	29.2	69.4
Tobacco manufactures.....	1,622	7,653	1.5	26,036,729	1.2	15,982,887	1.8	-4.7	7.5	26.8	19.1	36.2	34.9	20.5	31.8	30.4
Iron and steel, blast furnaces.....	5	1,450	0.3	25,861,528	1.2	4,067,381	0.4	-41.8	30.5	-36.5	-32.5	40.1	30.4	-45.0	-11.2	141.6
Copper, tin, and sheet-iron products.....	508	7,445	1.5	24,815,389	1.1	10,990,536	1.2	-0.4	32.4	24.3	8.7	48.3	45.2	14.1	46.1	49.5
Paints and varnishes.....	72	2,110	0.4	24,488,449	1.1	9,011,951	1.0	17.7	40.4	43.5	19.8	53.4	62.9	19.6	61.3	84.9
Confectionery.....	147	5,009	1.0	22,138,559	1.0	10,043,926	1.1	31.9	5.9	16.5	73.0	67.4	18.3	95.7	49.0	27.6
Coffee and spice, roasting and grinding.....	34	1,193	0.2	22,044,588	1.0	4,950,998	0.5	17.2	6.8	2.5	11.6	25.4	23.9	6.8	42.2	20.8
Butter, cheese, and condensed milk.....	267	1,755	0.3	21,792,220	1.0	3,556,588	0.4	1.3	-0.2	17.0	22.4	34.1	3.1	0.7	37.5	-4.2
Soap.....	27	2,144	0.4	21,420,035	1.0	6,167,142	0.7	-2.0	14.9	22.4	6.1	42.6	50.0	-1.1	29.5	41.4
Clothing, women's.....	241	8,113	1.6	20,750,550	0.9	9,531,354	1.1	31.9	31.2	6.5	24.7	35.9	25.2	28.4	25.7	24.1
Musical instruments, pianos and organs, and materials.....	71	8,334	1.6	19,705,601	0.9	11,384,130	1.2	-5.0	16.9	60.8	2.8	43.9	63.4	8.1	32.9	64.0
Smelting and refining, zinc.....	8	3,573	0.7	18,421,039	0.8	4,220,647	0.5	85.9	17.0	5.9	104.6	65.9	-7.8	68.3	64.4	4.1
Boots and shoes, including cut stock and findings.....	57	6,397	1.3	18,407,348	0.8	6,266,336	0.7	10.4	36.3	-11.3	9.9	67.7	-4.8	6.5	64.5	7.2
Food preparations, not elsewhere specified.....	115	1,790	0.4	17,620,136	0.8	4,868,943	0.5	32.6	41.4	32.6	69.4	98.3	.....	51.8	83.6	.....
Leather, tanned, curried, and finished.....	28	2,678	0.5	17,509,256	0.8	3,591,824	0.4	-10.8	8.3	22.4	17.4	38.6	37.1	29.2	7.6	25.2
Petroleum, refining.....	9	1,072	0.2	16,892,727	0.8	4,484,549	0.5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wire.....	9	2,763	0.5	15,219,277	0.7	5,347,199	0.6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carriages and wagons and materials.....	296	4,861	1.0	15,192,466	0.7	6,824,089	0.8	-16.9	13.5	18.6	-9.7	47.7	26.5	-7.2	30.2	21.4
Patent medicines and compounds and druggist's preparations.....	363	1,844	0.4	15,031,507	0.7	9,934,728	1.1	-1.3	0.1	43.3	14.6	-1.5	103.6	14.2	-12.0	118.8
Brick, tile, pottery, and other clay products.....	235	8,610	1.7	14,221,869	0.6	10,262,930	1.1	-11.5	23.5	9.0	-1.1	33.1	49.5	-4.6	28.7	48.8
Malt.....	14	438	0.1	11,132,980	0.5	1,947,729	0.2	16.2	-24.9	27.7	16.7	11.7	66.3	-6.5	13.4	64.3
Automobiles, including bodies and parts.....	91	2,545	0.5	11,018,162	0.5	4,729,729	0.5	6.8	1,326.3	-44.9	54.0	1,903.9	-52.3	49.0	1,195.9	-46.3
Stoves and furnaces, including gas and oil stoves.....	70	3,917	0.8	10,202,998	0.5	6,012,060	0.7	-12.9	15.1	.....	-0.8	30.8	.....	-6.5	27.3	.....
Canning and preserving.....	117	2,560	0.5	10,121,497	0.5	3,441,082	0.4	7.4	11.0	1.2	32.8	8.2	20.1	22.6	2.9	29.0
Boxes, fancy and paper.....	80	4,586	0.9	9,740,786	0.4	4,568,119	0.5	12.3	51.3	9.0	53.4	72.3	23.2	36.8	66.7	30.2
Millinery and lace goods.....	102	3,323	0.7	9,221,978	0.4	4,202,742	0.5	-0.2	18.9	84.6	26.6	47.2	135.3	20.6	36.5	140.7
Chemicals.....	26	1,682	0.3	8,618,118	0.4	2,257,699	0.4	101.2	16.0	24.5	85.1	103.9	9.4	85.1	89.7	2.0

¹ Percentages are based on figures in Table 43; a minus sign (-) denotes decrease; percentages are omitted when base is less than 100, or when comparable figures can not be given.

² Less than one-tenth of 1 per cent.

MANUFACTURES—ILLINOIS.

5

Table 2—Continued.

Table 2—Continued.		CENSUS OF 1914.						PER CENT OF INCREASE. ¹								
INDUSTRY.	Number of establishments.	Wage earners.		Value of products.		Value added by manufacture.		Wage earners (average number).			Value of products.			Value added by manufacture.		
		Average number.	Per cent distribution.	Amount.	Per cent distribution.	Amount.	Per cent distribution.	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904
Baking powders and yeast.....	19	628	0.1	8,454,936	0.4	4,988,243	0.5	-4.4	-13.3	69.6	10.8	68.1	35.7	14.1	58.7	33.8
Leather goods.....	304	2,325	0.5	7,982,276	0.4	3,444,488	0.4	-21.2	11.1	0.5	-10.8	33.3	29.0	-9.7	16.3	35.6
Coke.....	3	1,178	0.2	7,840,247	0.3	2,012,071	0.2									
Glass.....	10	3,764	0.7	7,680,343	0.3	4,872,493	0.5	7.3	-26.4	44.3	52.2	-10.2	98.3	39.0	-16.9	95.4
Clocks and watches, including cases and materials.....	15	5,688	1.1	7,659,153	0.3	5,621,145	0.6	0.4	39.2	24.5	8.7	40.9	77.8	4.9	33.8	90.2
Brass, bronze, and copper products.....	75	1,502	0.3	7,570,456	0.3	2,330,045	0.2	-11.0	5.2	27.1	10.6	44.0	45.0	-13.5	13.2	79.1
Hosiery and knit goods.....	46	3,535	0.7	7,367,235	0.3	3,300,596	0.4	21.4	24.4	27.8	23.9	59.4	69.2	21.6	73.5	70.3
Furnishing goods, men's.....	58	2,775	0.5	7,140,028	0.3	2,637,975	0.3	3.2	63.2	-5.9	-1.0	75.8	21.9	-0.1	61.7	25.7
Paper and wood pulp.....	21	1,704	0.3	6,951,794	0.3	2,686,784	0.3	22.0	45.7	53.9	39.5	104.0	70.6	42.6	83.4	62.0
Roofing materials.....	23	862	0.2	6,643,854	0.3	2,324,934	0.3	167.7	60.2		96.9	157.6		75.5	242.4	
Cooperage and wooden goods, not elsewhere specified.....	61	1,921	0.4	6,597,963	0.3	2,002,364	0.2	-19.6	-7.0	15.0	-0.2	-6.7	14.7	-6.1	-7.5	0.7
Cement.....	6	1,467	0.3	6,467,707	0.3	3,608,240	0.4	5.2	158.3		58.2	247.0		46.1	243.9	
Marble and stone work.....	312	1,975	0.4	6,175,739	0.3	3,600,035	0.4	-11.3	9.1	-0.2	-3.8	25.6	34.1	-3.8	15.0	36.7
Gas and electric fixtures and lamps and reflectors.....	76	2,078	0.4	6,157,909	0.3	3,117,505	0.3	-0.6	81.1	82.0	6.2	99.6	70.2	0.5	81.4	67.9
Signs and advertising novelties.....	150	2,176	0.4	6,045,092	0.3	4,221,432	0.5	68.7			84.8			84.6		
Babbitt metal and solder.....	12	203	(²)	5,143,492	0.2	847,298	0.1	10.9	28.9	5.2	24.0	65.8	64.4	9.7	32.2	125.5
Window shades and fixtures.....	47	918	0.2	4,950,677	0.2	1,318,856	0.1	18.0	112.0		6.1	222.9		-12.2	200.4	
Confectionery (ice cream).....	185	820	0.2	4,922,443	0.2	2,111,939	0.2									
Grease and tallow, not including lubricating greases.....	39	772	0.2	4,760,845	0.2	1,325,416	0.1	-0.8	30.5	98.0	-14.8	129.3	20.1	-13.1	60.5	143.0
Paper goods, not elsewhere specified.....	46	1,570	0.3	4,692,992	0.2	2,162,712	0.2	19.2	40.9	66.1	24.2	131.6	58.1	21.4	100.9	121.8
Wirework, including wire rope and cable, not elsewhere specified.....	51	886	0.2	4,682,478	0.2	1,261,801	0.1	22.4	-28.5		41.0	-11.7		2.3	-8.2	
Smelting and refining, not from the ore.....	17	282	0.1	4,587,299	0.2	1,071,707	0.1	-23.6	47.6	541.0	16.7	98.9	567.6	54.0	78.5	369.9
Soda-water apparatus.....	11	1,176	0.2	4,237,536	0.2	2,448,651	0.3	23.1	43.0		35.2	105.4		22.9	132.7	
Motorcycles, bicycles, and parts.....	13	911	0.2	4,064,739	0.2	1,804,407	0.2	0.1	-6.1	-77.9	128.8	53.1	-87.0	124.4	24.1	-84.3
Corsets.....	19	1,974	0.4	3,978,982	0.2	1,916,189	0.2	31.4	56.3	-12.2	46.8	119.2	23.1	26.4	124.3	24.7
Instruments, professional and scientific.....	30	1,104	0.2	3,969,727	0.2	2,849,166	0.3	152.1	88.8		124.4	240.8		134.7	181.7	
Looking-glass and picture frames.....	59	1,741	0.3	3,836,779	0.2	2,254,715	0.2	-16.1	-6.7		-14.9	-13.2		-17.6	-16.1	
Fertilizers.....	12	696	0.1	3,775,287	0.2	1,425,500	0.2	56.8	825.0	-85.8	58.2	1,721.3	-92.9	48.5	2,243.9	-95.3
Glue, not elsewhere specified.....	9	968	0.2	3,731,375	0.2	1,346,431	0.1	2.3	11.6		-1.2	38.4		-28.7	78.9	
Mattresses and spring beds.....	8	1,018	0.2	3,669,634	0.2	1,543,260	0.2	22.5	-6.2	28.0	28.3	35.1	28.2	25.9	35.2	5.6
Sewing machines and attachments.....	7	1,717	0.3	3,547,849	0.2	2,492,048	0.3									
Ice, manufactured.....	128	1,312	0.3	3,388,802	0.2	2,383,440	0.3	63.2	65.8	-22.3	75.8	105.1	-5.1	60.4	114.4	-15.2
Photo-engraving, not done in printing establishments.....	31	1,255	0.2	3,356,688	0.1	2,765,421	0.3	12.7	86.9	-9.8	25.4	96.2	28.7	29.0	93.9	22.1
Cutlery and tools, not elsewhere specified.....	84	1,631	0.3	3,296,888	0.1	2,119,634	0.2	17.1	55.6		19.5	82.0		25.7	77.5	
Jewelry.....	100	992	0.2	3,264,465	0.1	2,009,608	0.2	0.2	38.8	47.3	17.4	58.4	9.6	32.6	58.9	19.4
Surgical appliances and artificial limbs.....	37	687	0.1	3,238,420	0.1	1,500,302	0.2	28.2	23.8	125.5	54.3	107.8	92.4	32.9	96.7	68.7
Windmills.....	11	1,182	0.2	3,194,144	0.1	1,701,488	0.2	-18.7	96.9		-21.9	93.0		-17.2	81.7	
Cars and general shop construction and repairs by electric-railroad companies.....	43	1,813	0.4	3,181,375	0.1	1,653,919	0.2	-19.1	122.7	13.7	-7.8	201.9	2.4	0.6	126.8	24.1
House-furnishing goods, not elsewhere specified.....	46	506	0.1	3,079,275	0.1	1,557,050	0.2	73.3	14.1		123.3	21.1		169.4	32.0	
Paving materials.....	22	1,659	0.3	2,962,630	0.1	1,877,619	0.2	1,405.1	34.2		496.2	27.8		1,066.5	-3.2	
Bags, other than paper.....	9	275	0.1	2,876,238	0.1	550,184	0.1	45.5	48.8	19.8	198.0	19.3	47.9	96.4	67.7	-6.2
Mineral and soda waters.....	287	836	0.2	2,784,279	0.1	1,656,095	0.2	-5.5	5.0	17.6	-8.6	34.9	46.8	-18.6	22.0	66.1
Gloves and mittens, leather.....	28	1,371	0.3	2,773,867	0.1	1,086,647	0.1	4.7	15.4	-36.3	9.9	49.2	-31.9	4.0	24.6	-32.9
Coffins, burial cases, and undertakers' goods.....	21	802	0.2	2,705,383	0.1	1,397,912	0.2	9.6	8.3	37.1	19.7	21.0	50.3	9.4	36.2	81.4
Artificial stone products.....	420	1,122	0.2	2,694,575	0.1	1,567,100	0.2	42.9	762.6		79.1	841.8		72.0	767.6	
Explosives.....	9	366	0.1	2,581,762	0.1	926,580	0.1	26.2	104.2	100.0	75.8	106.3	145.5	73.6	78.0	105.5
Fancy articles, not elsewhere specified.....	49	692	0.1	2,388,178	0.1	1,161,212	0.1	55.9	-43.4	67.7	80.9	-21.1	84.4	55.6	-26.6	110.4
Wood preserving.....	5	404	0.1	2,317,393	0.1	773,259	0.1									
Dairymen's, poultrymen's, and apiarists' supplies.....	32	638	0.1	2,307,367	0.1	1,213,283	0.1	97.5	-10.0		95.3	4.4		100.2	6.3	
Wall paper, not made in paper mills.....	5	544	0.1	2,254,048	0.1	972,925	0.1	87.6	9.0	82.2	64.9	25.0	105.6	46.3	55.4	64.0
Sporting and athletic goods.....	21	769	0.2	2,237,529	0.1	1,011,545	0.1	14.4	81.6		42.6	136.7		34.0	128.8	
Iron and steel forgings, not made in steel works or rolling mills.....	17	750	0.1	2,061,247	0.1	930,715	0.1	-5.5	46.5		-18.2	77.2		-19.5	57.7	
Stationery goods.....	23	467	0.1	2,041,713	0.1	1,166,375	0.1	-42.4	12.7		-10.2	22.4		-5.4	9.4	
Glass, cutting, staining, and ornamenting.....	56	911	0.2	2,041,688	0.1	1,100,377	0.1	-2.2	17.8		5.1	27.2		-3.6	19.1	
Cordials and flavoring sirups.....	9	42	(²)	2,015,860	0.1	1,207,193	0.1	-82.4	340.7		-29.8	412.9		8.6	436.7	
Rubber goods.....	17	563	0.1	1,980,133	0.1	1,015,093	0.1	441.3	-91.2	37.4	419.7	-86.6	-22.7	460.8	-84.6	-31.8
Upholstering materials.....	8	434	0.1	1,770,525	0.1	525,078	0.1	-8.6	-33.6		-10.5	20.8		-24.6	3.7	
Fur goods.....	84	300	0.1	1,604,873	0.1	735,032	0.1	-2.6	-2.1	-54.1	-16.8	34.7	-38.6	-14.3	40.0	-42.7
Stereotyping and electrotyping.....	25	705	0.1	1,593,829	0.1	1,186,113	0.1	19.1	-13.6	50.5	24.3	6.4	79.0	22.8	-1.0	68.6
Awnings, tents, and sails.....	57	377	0.1	1,550,130	0.1	737,174	0.1	16.4	-43.8		47.3	-61.0		74.2	-37.0	
Brooms.....	65	646	0.1	1,533,248	0.1	713,426	0.1	30.8			4.7			13.2		
Belting, leather.....	8	157	(²)	1,404,769	0.1	426,954	(²)	-32.6	48.4	-32.0	-35.8	107.4	-22.5	-46.8	83.3	-6.4
Flavoring extracts.....	27	144	(²)	1,400,777	0.1	711,147	0.1	50.0	-58.8		49.0	-38.4		57.3	-32.2	
Springs, steel, car, and carriage, etc., not made in steel works or rolling mills.....	7	488	0.1	1,399,764	0.1	741,335	0.1	6.3	-3.0		1.4	28.0		1.8	25.2	
Scales and balances.....	12	531	0.1	1,375,843	0.1	838,489	0.1	114.1	125.5	-10.6	139.7	88.2	-1.0	154.7	58.9	-5.5

¹ Percentages are based on figures in Table 43; a minus sign (-) denotes decrease; percentages are omitted when base is less than 100, or when comparable figures can not be given.

² Less than one-tenth of 1 per cent.

Table 2—Continued.

INDUSTRY.	CENSUS OF 1914.							PER CENT OF INCREASE. ¹								
	Number of establishments.	Wage earners.		Value of products.		Value added by manufacture.		Wage earners (average number).			Value of products.			Value added by manufacture.		
		Average number.	Per cent distribution.	Amount.	Per cent distribution.	Amount.	Per cent distribution.	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904	1909-1914	1904-1909	1899-1904
Cash registers and calculating machines.....	10	514	0.1	1,368,158	0.1	1,268,271	0.1	12.2	69.6	.....	-10.0	373.5	.....	-10.3	387.6	.....
Photographic apparatus and materials.....	18	499	0.1	1,315,406	0.1	668,988	0.1	75.7	6.3	5.5	77.8	-8.8	27.1	58.5	-19.6	18.0
Blackening and cleansing and polishing preparations.....	73	256	0.1	1,304,086	0.1	585,343	0.1	8.5	34.9	44.6	6.0	86.1	30.1	-11.5	118.2	-3.2
Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.....	8	470	0.1	1,283,371	0.1	514,612	0.1	-46.4	338.5	.....	-34.4	312.4	.....	-45.3	330.1	.....
Type founding and printing materials.....	18	343	0.1	1,245,989	0.1	773,561	0.1	-21.7	1.4	2.5	-0.2	6.8	-7.1	-11.3	3.1	-5.6
Poultry, killing and dressing.....	28	109	(²)	1,243,910	0.1	199,783	(²)	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saws.....	9	432	0.1	1,225,072	0.1	592,666	0.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brushes.....	32	395	0.1	1,156,397	0.1	537,342	0.1	21.2	.....	.....	19.9	.....	.....	30.8	.....	.....
Wood, turned and carved.....	31	475	0.1	1,181,977	0.1	572,901	0.1	-27.3	3.8	-10.7	-15.3	22.4	26.5	-28.9	17.3	11.0
Washing machines and clothes wringers.....	18	247	(²)	1,137,217	0.1	514,275	0.1	208.8	158.1	.....	163.2	206.4	.....	98.5	135.5	.....
Hats and caps, other than felt, straw, and wool.....	36	465	0.1	1,126,735	0.1	610,051	0.1	0.4	6.2	1.6	7.7	1.9	7.9	7.6	15.5	3.8
Labels and tags.....	14	473	0.1	1,124,686	0.1	654,678	0.1	-7.4	115.6	.....	36.9	153.7	.....	47.2	122.5	.....
Mirrors, framed and unframed.....	13	326	0.1	1,074,978	(²)	414,496	(²)	-7.6	-28.5	64.7	-2.8	-21.4	56.4	-11.9	-33.3	112.7
Screws, machine.....	9	567	0.1	1,028,463	(²)	589,612	0.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
All other industries.....	924	22,916	4.5	126,607,634	5.6	39,216,968	4.3	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Percentages are based on figures in Table 43; a minus sign (—) denotes decrease; percentages are omitted when base is less than 100, or when comparable figures can not be given.

² Less than one-tenth of 1 per cent.

Separate statistics are presented for 121 industries, or industry groups, for each of which products valued at more than \$1,000,000 were reported in 1914. These industries include, 3 with products valued at more than \$100,000,000; 5 with products between \$50,000,000 and \$100,000,000 in value; 10 with products between \$25,000,000 and \$50,000,000; and 21 with products between \$10,000,000 and \$25,000,000, making an aggregate of 39 industries, each of which had products valued at more than \$10,000,000. The other industries shown separately comprise 19 with products between \$5,000,000 and \$10,000,000 in value, and 63 with products between \$1,000,000 and \$5,000,000. Among those included under the head of "all other industries," are 17 which have products in excess of some of those shown in the table, but which can not be given separately without the possibility of disclosing the operations of individual establishments.¹

Slaughtering and meat packing.—This classification includes wholesale slaughtering and meat-packing establishments and those engaged in the manufacture of sausage only, but does not include the operations of numerous slaughterhouses killing for the retail trade, which in the aggregate slaughter a large number of animals. Illinois still retains first place in this industry, the value of products reported in 1914 being \$489,230,324, or 29.2 per cent of the total for the industry in the United States. The corresponding proportions at former censuses were 28.4 per cent in 1909,

34.5 per cent in 1904, and 36.6 per cent in 1899. The value of slaughtering and meat-packing products formed 21.8 per cent of the total for all manufacturing industries of the state in 1914 and showed an increase of 25.6 per cent over the value reported for 1909. The industry ranked first in value of products and fourth in the number of wage earners employed in 1914 and 1909; in value added by manufacture, it was third in 1914 and fourth in 1909.

Foundry and machine-shop products.—This industry includes all foundries and machine shops, except those which manufacture a distinctive product covered by some other classification, such as cash registers, sewing machines, stoves and furnaces, and electrical machinery and apparatus. Establishments engaged in automobile repairing and those engaged in the manufacture of bells, cast-iron and cast-steel pipe, steam, gas and water engines, gas machines and gas and water meters, hardware, steam fittings and steam hoisting apparatus, steam pumps, and structural ironwork, are all included under this general classification. The industry ranks second in value of products, with 6.3 per cent of the state total for all manufacturing industries. There was an increase of but 2 per cent in the value of products from 1909 to 1914, as compared with 46 per cent from 1904 to 1909. At the last two censuses, it was the leading industry in the state in average number of wage earners, giving employment to 55,261 or 10.9 per cent of the total wage earners in the state in 1914, as compared with 52,266, or 11.2 per cent, in 1909.

Printing and publishing.—This industry ranked third in value of products among the industries of the state in 1914, having advanced from fourth place in 1909. It includes the printing and publishing of books, news-

¹ These industries are:

Ammunition.
Butter, reworking.
Cordage and twine.
Cotton goods.
Glucose and starch.
Gold and silver, reducing and refining, not from the ore.
Iron and steel, wrought pipe.
Lead, bar, pipe and sheet.

Oil, cottonseed, and cake.
Oil, linseed.
Oleomargarine.
Optical goods.
Silk goods, including throwsters.
Smelting and refining, lead.
Sulphuric, nitric, and mixed acids.
Typewriters and supplies.
Wool scouring.

papers and periodicals, and music, job printing, book-binding and blank-book making, steel and copper plate engraving and lithographing. Illinois ranked second in the United States in this industry, with products valued at \$112,833,427 in 1914, an increase of 29.3 per cent over that reported in 1909. There was an increase of 14.6 per cent in the average number of wage earners and 4.4 per cent in the number of establishments during the same period. The value of products for the industry formed 5 per cent of the total for all industries in the state in 1914. The principal items entering into the total value of products in 1914 were job printing, \$36,161,727; book and pamphlet printing and publishing, \$16,755,432; subscriptions and sales of newspapers, \$9,592,167; newspaper advertising, \$16,363,738; subscriptions and sales of magazines and periodicals, \$6,857,958; periodical advertising, \$8,974,993; bookbinding and blank-book making, \$6,428,579; and engraving, steel and copper plate, including plate printing, and lithographing, \$7,522,689.

Clothing, men's, including shirts.—This classification includes the making of men's and boys' ready-made clothing and of overalls, workmen's aprons, bathing suits, and the manufacture of all kinds of shirts and shirt waists for men and boys, and also the manufacture of shirt bosoms. The industry includes 253 establishments using purchased materials and 351 that made clothing from materials furnished by others. Of the 604 establishments, 563 were in Chicago, and the value of their products amounted to \$84,339,611, or 94.6 per cent of the total for the state. There was a slight decrease both in the average number of wage earners and in the value of products reported for the state in 1914, as compared with 1909.

Agricultural implements.—This industry includes the manufacture of various kinds of seeders and planters; plows, harrows, and cultivators; reapers, binders, mowers, and other harvesting machinery; thrashing machines and other seed separators; and other machinery used for agricultural purposes. Illinois is the leading state in the production of agricultural implements, the value of its products amounting to \$65,337,663, or more than one-third of the total value reported for the United States. There was an increase of 14.1 per cent in the value of products for 1914, as compared with 1909, and the rank of the industry advanced from sixth place in 1909 to fifth in 1914.

Iron and steel, steel works and rolling mills.—This industry embraces the manufacture of steel and the hot rolling of iron and steel. It also includes the making of forgings and castings and the manufacture of rolled iron and steel into more highly finished forms when conducted as a part of the rolling-mill operations. It does not include the making of cold-rolled products nor of forgings, castings, and other manufactures of iron and steel by establishments not equipped with steel-making furnaces or hot trains of rolls. There were 25 establishments in the state in 1914, coming

under this classification, a gain of one since 1909 and of two since 1904. The industry was seventh in rank in the state in value of products in 1914, fifth in 1909, fourth in 1904, and third in 1899. The decrease of 25 per cent in the value of products for 1914, as compared with 1909, is a reflection of the depression in the iron and steel industry during 1914. The average number of wage earners decreased 12.4 per cent and the value added by manufacture, 17.5 per cent during the same period.

Iron and steel, blast furnaces.—The blast-furnace industry showed a considerable decrease during the five-year period 1909 to 1914. There were five establishments reported for the industry in 1914 and 6 in 1909. There were 17 furnaces, of 7,351 tons daily capacity, in operation all or a part of the time during 1914, as compared with 24 of 8,125 tons in 1909, all coke furnaces. The average number of wage earners employed in the industry decreased from 2,493 to 1,450, or 41.8 per cent, and the value of products, from \$38,299,897 in 1909 to \$25,861,528 in 1914, or 32.5 per cent. Illinois contributed 8.1 per cent of the total value of products for the industry in the United States in 1914, as compared with 9.8 per cent in 1909, and 11.8 per cent in 1904.

Cars, steam-railroad, not including operations of railroad companies.—The products of the industry, include sleeping cars, dining cars, chair cars, passenger coaches, mail, express, and baggage cars, refrigerator, automobile, and the various other kinds of freight cars. Although the number of establishments was five less in 1914 than in 1909, the average number of wage earners increased from 10,945 to 18,000, or 64.5 per cent, and the value of products from \$27,001,092 to \$61,315,638, or 127.1 per cent. The large increase is to a considerable extent due to the remodeling of the rolling stock of railroads, following the more general use of steel cars in both freight and passenger service. Of the total number of passenger cars built in 1914, 1,339 were all steel; 90 were steel bodies with wood interior; 29 were steel underframes; while 14 were all wood. Of the 32,923 freight cars, the steel under-frame type predominated, 27,137 being of that class, 4,347 were all steel, and the remaining 1,439 were of the "all wood" type. In 1904 and 1914 Illinois held first place in value of products for the industry in the United States, while in 1909, it was second.

Liquors, distilled.—Illinois has ranked first among the states in this industry at each of the last four censuses, the products reported in 1914 amounting to \$51,596,022, or 24.9 per cent of the total for the United States. The figures reported represent chiefly the distillation of high-proof spirits, although alcohol and whisky were also made in considerable quantities. Peoria is the center of the industry, five of the seven establishments reported for the state, being in that city. The Federal internal-revenue tax on this product amounted to \$39,771,777 in 1914.

Liquors, malt.—Although the number of breweries in the state decreased from 116 in 1904 to 89 in 1914, the industry progressed constantly during the decade. The average number of wage earners increased 1,716, or 42.5 per cent, and the value of products, \$15,648,959, or 65.8 per cent.

Flour-mill and gristmill products.—This classification includes mills grinding wheat, rye, barley, buckwheat, corn, etc., but excludes mills doing custom grinding only and establishments making fancy cereals or other products. The industry showed a slight decrease during the period 1909 to 1914.

The rank of some of the industries shown separately in the table changes to a marked degree when determined by average number of wage earners or value added by manufacture, instead of by value of products. Slaughtering and meat packing, the ranking industry of the state in value of products, is only third in value added by manufacture and fourth in the average number of wage earners employed. Foundries and machine shops, second on the basis of the value of their products, holds first place in the value added by manufacture and in the number of wage earners. Printing and publishing, the third largest industry when measured by both value of products and number of wage earners employed, ranks second in value added by manufacture. Men's clothing holds the same rank in value added by manufacture as in the value of products but advances to second place in the number of wage earners. Among the industries whose rank in value added by manufacture and in average number of wage earners is not commensurate with the gross value of products, are flour mills and gristmills, blast furnaces, and butter, cheese, and condensed-milk factories. In these industries the work is done largely by machinery and comparatively few employees are required. The proportional value added to the raw material by manufacture is, therefore, small in comparison with the corresponding proportion for most other industries. The reverse is true in some industries in which the cost of materials forms a smaller proportion of the cost of production. In the brewing and distilling of liquors the relatively high rank in value added by manufacture is due to the inclusion of the Federal internal-revenue tax in the value of products.

In rank according to value of products there were a number of changes in 1914, as compared with 1909. Of the more important industries shown in the table, slaughtering and meat packing and foundries and machine shops held the same rank in value of products at both censuses. Printing and publishing and men's clothing exchanged places, and steelworks and rolling mills and agricultural implements also reversed the order of their rank at the two censuses. Some of the remaining industries held the same rank in 1914 as in 1909, while for others slight changes are noticeable from the earlier census to the later.

As stated in the "Explanation of terms," each establishment has been assigned to a given classification according to its product of chief value, so that the figures for any given industry must not be taken as fully covering the branch of manufacturing indicated by the industry designation. Therefore, in considering the relative importance of the industries shown in the preceding table or in Table 44, it should be noted that the figures for several of the industries listed fall short of being a complete presentation of the industry.

Persons engaged in manufacturing industries.—Table 3 shows, for 1914 and 1909, the number of persons engaged in manufactures, distributed by sex, the average number of wage earners being distributed also by age. The sex and age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms."

Table 3

CLASS.	Cen- sus year.	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES.				
		Total.	Male.	Fe- male.	Per cent of total.	
					Male.	Fe- male.
All classes	1914	617,927	510,833	107,094	82.7	17.3
	1909	561,044	465,139	95,905	82.9	17.1
Proprietors and officials	1914	35,005	33,768	1,237	96.5	3.5
	1909	33,611	32,567	1,044	96.9	3.1
Proprietors and firm members ..	1914	15,854	15,180	674	95.7	4.3
	1909	17,357	16,725	632	96.4	3.6
Salaried officers of corporations ..	1914	7,980	7,714	266	96.7	3.3
	1909	6,764	6,548	216	96.8	3.2
Superintendents and managers ..	1914	11,171	10,874	297	97.3	2.7
	1909	9,490	9,294	196	97.9	2.1
Clerks and other subordinate sala- ried employees ..	1914	75,979	56,000	19,979	73.7	26.3
	1909	61,669	46,390	15,279	75.2	24.8
Wage earners (average number) ..	1914	508,943	421,065	85,878	83.1	16.9
	1909	465,764	386,182	79,582	82.9	17.1
16 years of age and over	1914	501,251	418,363	82,888	83.5	16.5
	1909	458,847	382,691	76,156	83.4	16.6
Under 16 years of age	1914	5,692	2,702	2,990	47.5	52.5
	1909	6,917	3,491	3,426	50.5	49.5

Not only do males largely predominate in all classes for which separate statistics are given in the above table, but during the five-year period there was an increase in the per cent they formed of the total number of wage earners. There was a slight decrease in the proportion which males formed of the total number of proprietors and officials and of clerks and other salaried employees in 1914, as compared with 1909. The largest number of females, 85,878, were employed as wage earners, but they formed only 16.9 per cent of the total number of wage earners. The largest proportion of females, 26.3 per cent, is shown for clerks and other subordinate salaried employees. Corresponding figures for individual industries will be found in Table 44.

Table 4 gives, for the several classes of persons engaged in manufactures, the percentages of increase from 1909 to 1914 and the per cent distribution at the two censuses.

Table 4

Table 4	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES.									
	CLASS.	Per cent of increase, ¹ 1909-1914.			Per cent distribution.					
		Total.	Male.	Female.	Total.		Male.		Female.	
					1914	1909	1914	1909	1914	1909
All classes.....	10.1	10.3	9.2	100.0	100.0	100.0	100.0	100.0	100.0	
Proprietors and officials.....	4.1	3.7	18.5	5.7	6.0	6.6	7.0	1.2	1.1	
Proprietors and firm members.....	-8.7	-9.2	6.6	2.6	3.1	3.0	3.6	0.6	0.7	
Salaried officers of corporations.....	18.0	17.8	23.1	1.3	1.2	1.5	1.4	0.3	0.2	
Superintendents and managers.....	17.7	17.0	51.5	1.8	1.7	2.1	2.0	0.3	0.2	
Clerks and other subordinate salaried employees.....	23.2	20.7	30.8	12.3	11.0	10.9	10.0	19.1	15.9	
Wage earners (average number).....	8.8	9.7	4.9	82.0	83.0	82.5	83.0	79.7	83.0	
16 years of age and over.....	8.7	9.3	5.7	80.7	81.8	81.5	82.3	76.9	79.4	
Under 16 years of age.....	16.6	45.6	-12.9	1.3	1.2	1.0	0.7	2.8	3.6	

¹ A minus sign (-) denotes decrease.

Each of the several classes of employees, with the exception of proprietors and firm members, shows an increase from 1909 to 1914. The largest percentage of increase for both sexes combined, 23.2, is shown for clerks and other subordinate salaried employees, but the proportion which this class formed of the total number of wage earners was only 12.3 per cent in 1914 and 11 per cent in 1909. Although the number of wage earners 16 years of age and over increased substantially, the proportion which this class formed of all persons engaged in manufacturing industries in the state decreased slightly—from 81.8 per cent in 1909 to 80.7 per cent in 1914. The decrease in the number of proprietors and firm members is due in part to the discontinuance of numerous small brickyards and to the decrease in the number of lumber mills. A majority of these small mills, which went out of business between censuses, were operated by individuals or firms. Changes in character of ownership, as shown by Table 18, also account in part for the decrease in proprietors and firm members. A considerable number of establishments operated by individuals or firms in 1909 were subsequently incorporated, and their owners were reported in 1914 as salaried officers of corporations and superintendents and managers.

In order to compare the distribution of persons engaged in manufactures in 1914 with that shown at the census of 1904, it is necessary to use the classification employed at the earlier census. (See "Explanation of terms.") Table 5 makes this comparison according to occupational status.

Table 5

CLASS.	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES.							
	Number.			Per cent distribution.			Per cent of increase. ¹	
	1914	1909	1904	1914	1909	1904	1909-1914	1904-1909
Total.....	617,927	561,044	447,947	100.0	100.0	100.0	10.1	25.2
Proprietors and firm members.....	15,854	17,357	13,990	2.6	3.1	3.1	-8.7	24.1
Salaried employees.....	95,130	77,923	54,521	15.4	13.9	12.2	22.1	42.9
Wage earners (average).....	506,943	465,764	379,436	82.0	83.0	84.7	8.8	22.8

¹ A minus sign (-) denotes decrease.

During the decade 1904 to 1914 salaried employees increased 74.5 per cent and the proportion which this class formed of the total persons in the state engaged in manufactures advanced from 12.2 per cent to 15.4 per cent. Proprietors and firm members and wage earners increased at the rate of 13.3 per cent and 33.6 per cent, respectively, during the same period, but each of these two classes formed a decreasing proportion of the total from census to census. The decrease of 8.7 per cent from 1909 to 1914 in the number of proprietors and firm members is explained in Table 4.

The average number of wage earners employed and their per cent distribution as males 16 years of age and over, females 16 years of age and over, and children under 16 years of age, are given in Table 6 for 1914, 1909, and 1904. The table also shows for some of the important industries separately, a similar distribution of wage earners for 1914 and 1909.

There was little change from 1904 to 1914 in the proportion which men, women, and children formed, respectively, of the total wage earners reported for all industries combined. The slight relative increase in females 16 years of age and over was accompanied by corresponding decreases in males of the same age and of children under 16 years of age.

Of the 43 industries for which separate figures are given in this table, 26 show an increase from 1909 to 1914 in the proportion of males 16 years of age and over; 18 an increase in the proportion of females 16 years of age and over; and 8 an increase in the proportion of children under 16 years of age. The increase in the proportion of children, however, is very small, in no industry amounting to more than 1 per cent.

The industries in which women greatly predominate are the manufacture of fancy and paper boxes; men's and women's clothing; confectionery; corsets; men's furnishing goods; hosiery and knit goods; and millinery. The largest proportion, 9.9 per cent, of wage earners under 16 years of age is shown for the fancy and paper box industry, while the largest actual number (600) was employed in the manufacture of men's clothing.

Table 6

INDUSTRY.	Cen- sus year.	WAGE EARNERS.			
		Average num- ber. ¹	Per cent of total.		
			16 years of age and over.	Un- der 16 years of age.	
			Male.	Fe- male.	
All industries.....	1914	506,943	82.5	16.4	1.1
	1909	465,764	82.2	16.3	1.5
	1904	379,436	82.8	15.9	1.3
Agricultural implements.....	1914	19,556	98.9	1.0	0.1
	1909	19,240	98.7	1.2	0.1
Automobiles, including bodies and parts..	1914	2,545	98.7	1.3	(?)
	1909	2,382	98.6	1.4	
Boots and shoes, including cut stock and findings.	1914	6,397	60.3	37.3	2.5
	1909	5,792	61.2	33.0	5.8
Boxes, fancy and paper.....	1914	4,586	42.4	47.7	9.9
	1909	4,085	34.2	55.7	10.0
Bread and other bakery products.....	1914	10,404	75.4	23.5	1.1
	1909	8,611	79.4	19.3	1.3
Brick, tile, pottery, and other clay prod- ucts.	1914	8,610	99.5	0.3	0.3
	1909	9,731	99.1	0.4	0.5
Canning and preserving.....	1914	2,560	61.4	37.1	1.4
	1909	2,383	48.6	48.0	3.4
Carriages and wagons and materials.....	1914	4,861	98.5	1.5	(?)
	1909	5,852	98.1	1.7	0.2
Cars and general shop construction and re- pairs by steam-railroad companies.	1914	23,682	99.9	0.1	(?)
	1909	23,131	99.8	0.2	(?)
Cars, steam-railroad, not including opera- tions of railroad companies.	1914	18,000	99.7	0.3	
	1909	10,945	99.6	0.4	
Clocks and watches, including cases and materials.	1914	5,688	53.9	44.7	1.5
	1909	5,665	55.0	44.4	0.6
Clothing, men's, including shirts.....	1914	35,119	46.0	52.3	1.7
	1909	36,152	47.0	50.3	2.8
Clothing, women's.....	1914	8,113	30.9	67.6	1.5
	1909	6,151	31.1	67.4	1.5
Confectionery.....	1914	5,009	39.2	53.4	7.4
	1909	3,799	34.4	58.9	6.7
Copper, tin, and sheet-iron products.....	1914	7,445	81.9	17.3	0.8
	1909	7,473	85.3	13.0	1.7
Cordage and twine and jute and linen goods.	1914	2,460	67.9	32.0	(?)
	1909	1,799	44.2	52.8	3.0
Corsets.....	1914	1,974	9.5	86.3	4.3
	1909	1,502	7.0	84.4	8.6
Electrical machinery, apparatus, and sup- plies.	1914	16,483	78.8	20.9	0.3
	1909	9,641	75.3	24.3	0.5
Flour-mill and gristmill products.....	1914	2,398	99.3	0.5	0.1
	1909	2,464	99.3	0.6	0.1
Foundry and machine-shop products.....	1914	55,261	96.7	2.8	0.5
	1909	52,286	97.2	2.4	0.4
Furnishing goods, men's.....	1914	2,775	12.6	83.1	4.4
	1909	2,688	12.4	84.2	3.4
Furniture and refrigerators.....	1914	13,766	96.8	2.1	1.0
	1909	13,575	96.4	2.3	1.3

Table 6

INDUSTRY.	Cen- sus year.	WAGE EARNERS.			
		Average num- ber. ¹	Per cent of total.		
			16 years of age and over.	Un- der 16 years of age.	
			Male.	Fe- male.	
Gas and electric fixtures and lamps and reflectors.	1914	2,078	82.7	14.7	2.6
	1909	2,090	78.2	19.6	2.2
Gas, illuminating and heating.....	1914	3,890	100.0		
	1909	6,301	100.0		
Glass.....	1914	3,764	95.8	4.0	0.2
	1909	3,507	90.7	4.6	4.7
Hosiery and knit goods.....	1914	3,535	31.2	66.5	2.3
	1909	2,913	29.9	63.3	6.8
Iron and steel, steel works and rolling mills.	1914	15,408	99.9	0.1	(?)
	1909	17,584	99.8	0.1	0.1
Leather goods.....	1914	2,325	85.7	13.2	1.1
	1909	2,949	86.5	12.3	1.1
Leather, tanned, curried, and finished....	1914	2,678	99.3	0.6	0.1
	1909	3,001	99.8	0.2	
Liquors, malt.....	1914	5,749	98.9	0.8	0.3
	1909	4,398	98.0	1.4	0.6
Lumber and timber products.....	1914	14,870	97.9	1.5	0.6
	1909	16,567	98.0	0.8	1.1
Marble and stone work.....	1914	1,975	99.6	0.4	
	1909	2,226	99.8	(?)	0.2
Millinery and lace goods.....	1914	3,323	25.0	72.9	2.2
	1909	3,328	13.8	75.4	5.8
Musical instruments, pianos and organs and materials.	1914	8,334	90.8	8.0	1.2
	1909	8,777	91.0	5.5	3.5
Paints and varnishes.....	1914	2,110	89.9	10.0	0.1
	1909	1,792	89.0	10.3	0.8
Printing and publishing.....	1914	32,838	74.7	22.4	2.8
	1909	28,644	74.1	23.3	2.6
Signs and advertising novelties.....	1914	2,176	76.1	21.7	2.2
	1909	1,290	69.8	25.0	4.2
Slaughtering and meat packing.....	1914	31,627	89.8	10.0	0.2
	1909	26,705	88.8	11.0	0.1
Smelting and refining, zinc.....	1914	3,573	99.3	0.1	0.7
	1909	1,922	99.3		0.7
Soap.....	1914	2,144	70.8	25.4	3.9
	1909	2,188	69.7	24.9	5.4
Stoves and furnaces, including gas and oil stoves.	1914	3,917	98.7	0.3	1.0
	1909	4,499	98.2	(?)	0.8
Tobacco manufactures.....	1914	7,653	67.7	30.0	2.4
	1909	8,034	69.1	28.9	2.0
Wire.....	1914	2,763	99.2	0.8	
	1909	2,516	98.6	1.4	
All other industries.....	1914	87,521	83.3	15.4	1.3
	1909	79,206	81.9	16.4	1.7

¹ For method of estimating the distribution, of the average number, by sex and age periods, for all industries combined, see "Explanation of terms."

² Less than one-tenth of 1 per cent.

Table 7 shows the average number and the per cent distribution of wage earners employed in each of the 35 cities having more than 10,000 inhabitants, classified according to age periods, and in the case of those 16 years of age and over, according to sex, for 1914, 1909, and 1904. Statistics for Cicero can not be shown without disclosing the operations of individual establishments.

Table 8 gives the percentages of increase from census to census, based on the figures in Table 7, for cities where per cent of increase can be computed.

While the proportion of male wage earners 16 years of age and over is greatly in excess of that for females

16 years of age and over in every city, the per cent that males form of the total number of wage earners decreased in 15 of the cities during the period 1909 to 1914. The only cities in which the proportion of adult males fell below 75 per cent were Centralia, Elgin, and Kankakee. Of these, Elgin is the only one in which a considerable number of females were employed, and the 2,180 women reported for 1914 were employed principally in the manufacture of watches and in the printing and publishing industry. Most of the cities show decreases from census to census in both the number and proportions of wage earners under 16 years of age.

In Chicago, by far the most important city in the state in the number of wage earners employed, males 16 years of age and over formed 78.7 per cent of the total number of wage earners reported at the censuses

of 1914 and 1909. During this period there was a slight increase in the percentage of adult females and a decrease in that of children employed as wage earners.

Table 7

AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.

CITY. ¹	Total.			16 years of age and over.									Under 16 years of age.			Per cent of total.										
				Male.			Female.									16 years of age and over.									Under 16 years of age.	
													Male.			Female.						Male.						Female.
	1914	1909	1904	1914	1909	1904	1914	1909	1904	1914	1909	1904	1914	1909	1904	1914	1909	1904	1914	1909	1904					
Alton	2,662	2,429	3,069	2,527	2,247	2,866	122	124	120	13	58	83	94.9	92.5	93.4	4.6	5.1	3.9	0.5	2.4	2.7					
Aurora	4,777	5,095	4,078	3,623	4,081	3,162	1,058	943	797	96	71	119	75.8	80.1	77.5	22.1	18.5	19.5	2.0	1.4	2.9					
Belleville	2,450	1,872	1,765	1,997	1,662	1,618	387	139	69	66	71	78	81.5	88.8	91.7	15.8	7.4	3.9	2.7	3.8	4.4					
Bloomington	2,384	2,077	2,275	2,149	1,767	1,921	220	266	345	15	44	9	90.1	85.1	84.4	9.2	12.8	15.2	0.6	2.1	0.4					
Cairo	1,522	1,237	1,435	1,479	1,202	1,415	42	32	18	1	3	2	97.2	97.2	98.6	2.8	2.6	1.3	0.1	0.2	0.1					
Canton	920	1,262		804	1,143		116	111			8		87.4	90.6		12.6	8.8		0.6							
Centralia	237			154			82			1			65.0			34.0			0.4							
Champaign	382	273	289	331	253	275	50	14	12	1	6	2	86.6	92.7	95.2	13.1	5.1	4.2	0.3	2.2	0.7					
Chicago	313,710	293,977	241,984	246,979	231,461	191,844	62,412	57,545	46,987	4,319	4,971	3,153	78.7	78.7	79.3	19.9	19.6	19.4	1.4	1.7	1.3					
Chicago Heights	4,288	3,953		4,104	3,830		171	95		13	28		95.7	96.9		4.0	2.4		0.3	0.7						
Danville	2,109	1,744	1,884	1,929	1,605	1,769	160	127	101	20	12	14	91.5	92.0	93.9	7.6	7.3	5.4	0.9	0.7	0.7					
Decatur	4,003	2,699	2,340	3,349	2,213	2,057	484	402	234	170	84	49	83.7	82.0	87.9	12.1	14.9	10.0	4.2	3.1	2.1					
East St. Louis	5,863	2,526	4,505	5,750	2,506	4,258	95	2156	143	18	64	104	98.1	95.8	94.5	1.6	3.0	3.2	0.3	1.2	2.3					
Elgin	5,529	2,067	4,885	3,277	2,618	2,865	2,180	2,353	1,934	72	96	86	59.3	59.6	58.6	39.4	38.8	39.6	1.3	1.6	1.8					
Evanston	924	837	738	899	754	721	24	82	15	1	1	2	97.3	90.1	97.7	2.6	9.8	2.0	0.1	0.1	0.3					
Freeport	2,566	2,853	1,516	2,372	2,585	1,438	173	245	75	21	23	3	92.4	90.6	94.9	6.7	8.6	4.9	0.8	0.8	0.2					
Galesburg	1,362	1,405	1,447	1,212	1,266	1,234	147	186	200	3	13	13	89.0	86.4	85.3	10.8	12.7	13.8	0.2	0.9	0.9					
Granite City	5,090			4,859			226			5			95.5			4.4			0.1							
Jacksonville	932	947	899	739	700	685	177	234	208	16	13	6	79.3	73.9	76.2	19.0	24.7	23.1	1.7	1.4	0.7					
Joliet	4,999	6,383	5,792	4,443	5,834	5,507	552	523	273	4	26	12	88.9	91.4	95.1	11.0	8.2	4.7	0.1	0.4	0.2					
Kankakee	1,430	1,349	1,038	989	938	935	389	348	91	52	63	12	69.2	69.5	90.1	27.2	25.8	8.8	3.6	4.7	1.2					
Kewanee	2,837			2,462			348			27			1.0			0.7			2.2	1.9	1.8					
La Salle	1,214	2,936	1,197	1,179	2,909	1,146	8	9	30	27	18	21	97.1	97.1	95.7	0.7	1.0	2.5	2.7	1.5	1.8					
Lincoln	239	220	236	220	204	224	17	15	11	2	1	1	92.1	92.7	94.9	7.1	6.8	4.7	0.8	0.5	0.4					
Mattoon	735	948	1,022	697	916	966	38	32	54			2	94.8	96.6	94.5	5.2	3.4	5.3			0.2					
Moline	5,053	2,537	3,987	4,854	2,570	3,901	170	2175	71	29	242	15	96.1	96.0	97.8	3.4	3.2	1.8	0.6	0.8	0.4					
Oak Park	268	282		253	276		15	6					94.4	97.9		5.6	2.1									
Pekin	634			598			35			1																
Peoria	6,285	5,981	5,834	5,182	5,213	5,274	972	722	492	131	46	68	82.5	87.2	90.4	15.5	12.1	8.4	2.1	0.8	1.2					
Quincy	3,067	2,997	4,602	2,523	2,223	3,807	493	2,714	712	51	60	83	82.3	80.6	82.7	16.1	17.9	15.5	1.7	1.5	1.8					
Rock Island	1,837	1,754	1,703	1,690	1,596	1,605	141	112	89	6	46	9	92.0	91.0	94.2	7.7	6.4	5.2	0.3	2.6	0.5					
Rockford	10,472	9,309	7,239	8,654	7,615	5,863	1,767	1,499	1,244	51	195	132	82.6	81.8	81.0	16.9	16.1	17.2	0.5	2.1	1.8					
Springfield	4,157	3,652	3,071	3,312	2,920	2,517	813	688	533	32	44	21	79.7	80.0	82.0	19.6	18.8	17.4	0.8	1.2	0.7					
Streator	1,763	1,275	1,544	1,626	1,109	1,417	122	108	17	15	58	110	92.2	87.0	81.8	6.9	8.5	1.1	0.9	4.5	7.1					
Waukegan	2,276	2,956	2,265	2,098	2,741	2,169	169	2196	86	9	19	10	92.2	92.7	95.8	7.4	6.6	3.8	0.4	0.6	0.4					

¹ Statistics for Cicero can not be shown without disclosure of individual operations.

² Figures do not agree with those published, because it was necessary to revise them in order to include data only for those establishments located within the corporate limits of the city.

Table 8

PER CENT OF INCREASE IN AVERAGE NUMBER OF WAGE EARNERS.¹

CITY.	Period.	Total.	16 years of age and over.		Under 16 years of age.	CITY.	Period.	Total.	16 years of age and over.		Under 16 years of age.
			Male.	Female.					Male.	Female.	
Alton.....	1904-1914	-13.3	-11.8	1.7	.....	Chicago Heights.....	1909-1914	8.5	7.2	.....	.....
	1909-1914	9.6	12.5	-1.6	.....		1904-1914	11.9	9.0	58.4	.....
	1904-1909	-20.9	-21.6	3.3	.....	Danville.....	1909-1914	20.9	20.2	26.0	.....
Aurora.....	1904-1914	17.1	14.6	32.7	-19.3		1904-1909	-7.4	-9.3	25.7	.....
	1909-1914	-6.2	-11.2	12.2	.....	Decatur.....	1904-1914	71.1	62.8	106.8	.....
	1904-1909	24.9	29.1	18.3	-40.3		1909-1914	48.3	51.3	20.4	.....
Belleville.....	1904-1914	38.8	23.4	.....	.....		1904-1909	15.3	7.6	71.8	.....
	1909-1914	30.9	20.2	178.4	.....	East St. Louis.....	1904-1914	30.1	35.0	-33.6	-82.7
	1904-1909	6.1	2.7	.....	.....		1909-1914	12.2	14.9	-39.1	.....
Bloomington.....	1904-1914	4.8	11.9	-36.2	.....		1904-1909	16.0	17.6	9.1	-38.5
	1909-1914	14.8	21.6	-17.3	.....	Elgin.....	1904-1914	13.2	14.4	12.7	.....
	1904-1909	-8.7	-8.0	-22.9	.....		1909-1914	-8.9	-9.4	-7.4	.....
Cairo.....	1904-1914	6.1	4.5	.....	.....		1904-1909	24.2	26.3	21.7	.....
	1909-1914	23.0	23.0	.....	.....	Evanston.....	1904-1914	25.2	24.7	.....	.....
	1904-1909	-13.8	-15.1	.....	.....		1909-1914	10.4	19.2	.....	.....
Canton.....	1909-1914	-27.1	-29.7	4.5	.....		1904-1909	13.4	4.6	.....	.....
Champaign.....	1904-1914	32.2	20.4	.....	.....	Freeport.....	1904-1914	69.3	65.0	.....	.....
	1909-1914	39.9	30.8	.....	.....		1909-1914	-10.1	-8.2	-29.4	.....
	1904-1909	-5.5	-8.0	.....	.....		1904-1909	88.2	79.8	.....	.....
Chicago.....	1904-1914	29.6	28.7	32.8	37.0	Galesburg.....	1904-1914	-5.9	-1.8	-26.5	.....
	1909-1914	6.7	6.7	8.5	-13.1		1909-1914	-7.0	-4.3	-21.0	.....
	1904-1909	21.5	20.7	22.5	57.7		1904-1909	1.2	2.6	-7.0	.....

¹ A minus sign (-) denotes decrease; per cent not shown where base is less than 100.

Table 8—Continued

CITY.	PER CENT OF INCREASE IN AVERAGE NUMBER OF WAGE EARNERS. ¹					CITY.	PER CENT OF INCREASE IN AVERAGE NUMBER OF WAGE EARNERS. ¹				
	Period.	Total.	16 years of age and over.		Under 16 years of age.		Period.	Total.	16 years of age and over.		Under 16 years of age.
			Male.	Female.					Male.	Female.	
Jacksonville.....	1904-1914	3.7	7.9	-14.9	.....	Peoria.....	1904-1914	7.7	-1.7	97.6	.....
	1909-1914	-1.6	5.6	-24.4	.....		1909-1914	5.1	-0.6	34.6	.....
	1904-1909	5.3	2.2	12.5	.....		1904-1909	2.5	-1.2	46.7	.....
Joliet.....	1904-1914	-13.7	-19.3	102.2	.....	Quincy.....	1904-1914	-33.4	-33.7	-30.8	.....
	1909-1914	-21.7	-23.8	5.5	.....		1909-1914	-23.3	-21.7	-31.0	.....
	1904-1909	10.2	5.9	91.6	.....		1904-1909	-13.1	-15.3	0.3	.....
Kankakee.....	1904-1914	37.8	5.8	.....	.....	Rock Island.....	1904-1914	7.9	5.3	.....	.....
	1909-1914	6.0	5.4	11.8	.....		1909-1914	4.7	5.9	25.9	.....
	1904-1909	30.0	0.3	.....	.....		1904-1909	3.0	-0.6	.....	.....
La Salle.....	1904-1914	1.4	2.9	.....	.....	Rockford.....	1904-1914	44.7	47.6	42.0	-61.4
	1909-1914	29.7	29.7	.....	.....		1909-1914	12.5	13.6	17.9	-73.8
	1904-1909	-21.8	-20.7	.....	.....		1904-1909	28.6	29.9	20.5	47.7
Lincoln.....	1904-1914	1.3	-1.8	.....	.....	Springfield.....	1904-1914	35.4	31.6	52.5	.....
	1909-1914	8.6	7.8	.....	.....		1909-1914	13.8	13.4	18.2	.....
	1904-1909	-6.8	-8.9	.....	.....		1904-1909	18.9	16.0	29.1	.....
Mattoon.....	1904-1914	-28.1	-27.8	.....	.....	Streator.....	1904-1914	14.2	14.7	.....	-86.4
	1909-1914	-22.5	-23.9	.....	.....		1909-1914	38.3	46.6	13.0	.....
	1904-1909	-7.2	-5.2	.....	.....		1904-1909	-17.4	-21.7	.....	-47.3
Moline.....	1904-1914	26.7	24.4	.....	.....	Waukegan.....	1904-1914	0.5	-3.3	.....	.....
	1909-1914	-6.2	-6.1	-2.9	.....		1909-1914	-23.0	-23.5	-13.8	.....
	1904-1909	35.1	32.5	.....	.....		1904-1909	30.5	26.4	.....	.....
Oak Park.....	1909-1914	-5.0	-8.3	.....	.....				

¹ A minus sign (-) denotes decrease; per cent not shown where base is less than 100.

Wage earners employed, by months.—The following table gives, for all industries combined, the total number of wage earners employed on the 15th of each month, or the nearest representative day, for 1914 and 1909, and the average number employed during each month in 1904, together with the percentage which the number reported for each month forms of the greatest number reported for any month.

MONTH.	WAGE EARNERS IN MANUFACTURING INDUSTRIES.					
	Number. ¹			Per cent of maximum.		
	1914	1909	1904	1914	1909	1904
January.....	517,634	438,594	363,825	99.2	88.0	92.5
February.....	518,222	442,881	374,424	99.3	88.8	95.2
March.....	521,752	452,563	386,521	100.0	90.8	98.3
April.....	514,505	455,145	389,274	98.6	91.3	99.0
May.....	508,665	454,965	379,346	97.5	91.2	99.0
June.....	512,246	454,375	379,689	98.2	92.1	96.6
July.....	505,982	454,410	357,587	97.0	91.1	90.9
August.....	509,603	460,414	384,626	98.3	92.3	92.7
September.....	504,543	481,796	383,153	96.7	96.6	97.4
October.....	505,655	493,928	393,202	98.9	99.1	100.0
November.....	488,164	496,452	386,024	93.6	99.6	98.2
December.....	483,275	498,640	385,561	92.6	100.0	98.1

¹ The figures for 1914 and 1909 represent the number employed on the 15th of each month, or the nearest representative day; those for 1904, the average number employed during the month.

For 1914 January, February, and March show the greatest activity in the combined industries of the state, the maximum number of wage earners appearing for March and the minimum for December. In 1909 the greatest number of wage earners were employed in December and the least in January, while in 1904, the maximum month was October and the minimum July. The greatest difference between the maximum and minimum months in any one of the three census years, was 60,046 in 1909.

Table 10 gives the total average number of wage

earners employed during 1914, together with the total number employed on the 15th of each month, or the nearest representative day, for the combined industries of the state, for a number of selected industries, and for the total industries of each of the 35 cities having more than 10,000 inhabitants.

The majority of the industries, for which separate figures are given in Table 10, show the stability of employment during 1914. For 15 of them there was a variation of less than 10 per cent between the numbers reported for the months of maximum and minimum employment and for 9 other industries the variation was less than 20 per cent. The manufacture of clocks and watches, including cases and materials, furnishes constant employment to almost the entire number of wage earners engaged in the industry, the minimum forming 97.6 per cent of the maximum.

Some of the industries, however, show a great variation in the number employed at different times during the year. Of the selected industries, canning and preserving, shows the greatest degree of fluctuation, the number of wage earners in February being but 23.6 per cent of the number in September, when the canning season is at its height. Of the cities, Canton shows the widest variation between the months of greatest and least employment, the proportion that the minimum formed of the maximum for this city being 28.4 per cent.

The greatest stability of employment is shown in Elgin, where the proportion the minimum formed of the maximum number was 96.3 per cent. Chicago and Springfield also show a small degree of fluctuation, the corresponding proportion being 94.3 per cent and 9.46 per cent, respectively.

Table 10

WAGE EARNERS: 1914.
[Month of maximum employment for each industry is indicated by boldface figures and that of minimum by italic figures.]

INDUSTRY AND CITY.	Average number employed during year.	Number employed on 15th day of the month or nearest representative day.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	506,943	517,634	518,292	521,752	514,505	508,665	512,246	505,982	502,603	504,543	505,655	488,164	483,275	92.6
Agricultural implements.....	19,556	26,217	25,770	23,011	21,240	19,940	18,944	17,991	12,695	12,338	17,147	19,578	19,801	47.1
Automobiles, including bodies and parts.....	2,545	2,269	2,337	2,552	2,795	2,942	2,815	2,535	2,487	2,472	2,461	2,538	2,347	76.8
Boots and shoes, including cut stock and findings.....	6,397	6,203	6,275	6,420	6,168	6,459	6,593	6,769	6,614	6,471	6,383	6,182	6,227	91.1
Boxes, fancy and paper.....	4,586	4,779	4,662	4,603	4,453	4,450	4,537	4,569	4,522	4,650	4,685	4,588	4,534	93.1
Bread and other bakery products.....	10,404	9,779	9,950	10,187	10,332	10,465	10,538	10,636	10,572	10,542	10,737	10,627	10,483	91.1
Brick, tile, pottery, and other clay products.....	8,610	6,928	6,256	6,620	7,545	8,463	10,232	10,386	10,694	10,261	9,372	8,732	7,831	58.5
Canning and preserving.....	2,560	1,370	1,367	1,430	1,475	1,732	3,044	2,712	4,703	5,785	3,652	1,997	1,453	23.6
Carriages and wagons and materials.....	4,861	5,252	5,387	5,406	5,309	5,068	4,839	4,668	4,682	4,625	4,393	4,309	4,394	79.7
Cars and general shop construction and repairs by steam-railroad companies.....	28,682	28,321	28,232	28,051	27,812	27,351	27,911	29,428	29,805	30,231	30,000	29,412	28,130	90.3
Cars, steam-railroad, not including operations of railroad companies.....	18,000	20,104	17,102	16,751	15,087	15,151	16,987	17,695	21,460	19,660	21,297	17,993	16,743	70.2
Clocks and watches, including cases and materials.....	5,688	5,740	5,732	5,744	5,701	5,684	5,685	5,653	5,698	5,706	5,664	5,640	5,609	97.6
Clothing, men's, including shirts.....	35,119	35,056	36,129	36,169	35,714	35,930	36,239	34,746	34,236	34,335	34,469	34,018	34,387	93.9
Clothing, women's.....	8,113	7,203	8,185	8,686	8,843	7,996	7,260	7,297	7,862	8,787	9,153	8,525	7,559	78.7
Confectionery.....	5,009	4,768	4,631	4,721	4,578	4,666	4,466	4,399	4,829	5,635	5,929	5,708	5,778	74.2
Copper, tin, and sheet-iron products.....	7,445	7,009	7,033	7,643	7,903	7,903	7,775	7,451	7,631	7,677	7,249	7,046	7,020	88.7
Electrical machinery, apparatus, and supplies.....	16,483	18,186	18,133	17,780	17,350	17,025	16,751	16,419	16,194	15,969	15,415	14,556	14,018	77.1
Flour-mill and gristmill products.....	2,398	2,297	2,350	2,351	2,403	2,352	2,324	2,427	2,490	2,482	2,443	2,426	2,431	92.2
Foundry and machine-shop products.....	55,261	57,122	57,427	58,206	58,050	57,405	56,427	56,361	55,873	54,005	52,243	50,277	49,736	85.4
Furnishing goods, men's.....	2,775	2,746	2,769	2,858	2,723	2,672	2,683	2,837	2,802	2,835	2,796	2,801	2,778	93.5
Furniture and refrigerators.....	13,766	13,783	14,120	14,425	14,341	14,203	13,833	13,119	13,388	13,646	13,734	13,450	13,150	90.9
Gas and electric fixtures and lamps and reflectors.....	2,078	2,257	2,245	2,148	2,108	2,091	1,963	1,917	1,914	1,978	2,111	2,126	2,078	84.8
Gas, illuminating and heating.....	3,890	3,553	3,410	3,462	4,310	4,507	4,286	4,046	4,488	3,916	3,977	3,450	3,475	74.4
Glass.....	3,764	4,337	4,320	4,206	4,288	3,967	4,029	3,310	2,713	2,694	3,448	3,895	3,961	62.1
Hosiery and knit goods.....	3,535	3,629	3,644	3,639	3,642	3,582	3,543	3,400	3,308	3,350	3,545	3,482	3,656	90.5
Iron and steel, steel works and rolling mills.....	15,408	16,551	16,814	17,644	17,380	16,191	16,357	15,629	15,427	16,041	13,975	11,728	11,159	63.2
Leather goods.....	2,325	2,314	2,401	2,404	2,412	2,354	2,324	2,283	2,259	2,282	2,326	2,320	2,221	92.1
Leather, tanned, curried, and finished.....	2,678	2,833	2,847	2,814	2,680	2,762	2,689	2,684	2,599	2,455	2,470	2,601	2,702	86.2
Liquors, malt.....	5,749	5,461	5,453	5,459	5,542	5,747	6,237	6,246	6,184	5,885	5,701	5,561	5,512	87.3
Lumber and timber products.....	14,870	14,789	14,680	15,355	15,412	15,324	15,684	15,815	15,196	14,822	14,403	13,709	13,251	83.8
Millinery and lace goods.....	3,323	3,650	4,253	4,294	3,846	2,765	2,379	2,659	3,490	3,557	2,792	2,841	3,350	55.4
Musical instruments, pianos and organs and materials.....	8,334	8,545	8,757	8,819	8,839	8,465	8,361	8,153	8,132	8,218	7,972	7,924	7,823	88.5
Paints and varnishes.....	2,110	2,167	2,250	2,298	2,328	2,319	2,205	2,011	1,940	1,996	1,971	1,903	1,932	81.7
Printing and publishing.....	32,838	32,717	32,883	33,525	32,696	32,496	32,943	32,966	32,910	33,219	32,603	32,457	32,641	96.8
Slaughtering and meat packing.....	31,627	33,926	33,035	31,886	29,153	28,661	30,280	29,565	28,845	31,302	34,029	33,280	33,662	80.1
Smelting and refining, zinc.....	3,573	3,480	3,515	3,600	3,568	3,567	3,555	3,468	3,524	3,602	3,609	3,605	3,783	91.7
Soap.....	2,144	2,198	2,215	2,227	2,196	2,143	2,139	2,142	2,089	2,116	2,102	2,089	2,072	93.0
Stoves and furnaces, including gas and oil stoves.....	3,917	3,399	3,828	4,141	4,458	4,431	4,352	3,712	3,750	3,906	4,091	3,647	3,239	73.8
Tobacco manufactures.....	7,653	7,679	7,695	7,615	7,532	7,566	7,607	7,534	7,576	7,700	7,796	7,782	7,754	96.6
All other industries.....	98,869	99,227	100,200	102,602	102,823	101,970	101,430	100,344	97,022	97,392	97,612	93,361	92,545	90.0
Total for cities ¹	408,976	418,517	421,294	423,736	416,447	409,982	409,955	403,708	400,360	403,132	408,276	397,159	395,146	93.3
ALTON.....	2,662	2,997	2,907	3,042	3,029	2,766	2,676	2,371	2,279	2,297	2,454	2,531	2,595	74.9
AURORA.....	4,777	4,953	4,975	5,011	5,049	5,044	5,032	4,868	4,847	4,844	4,503	4,397	4,301	85.2
BELLEVIEW.....	2,450	2,120	2,381	2,480	2,517	2,540	2,599	2,532	2,642	2,578	2,484	2,328	2,199	80.2
BLOOMINGTON.....	2,384	2,354	2,394	2,352	2,336	2,245	2,320	2,435	2,524	2,474	2,443	2,415	2,316	88.9
CAIRO.....	1,522	1,604	1,600	1,732	1,764	1,725	1,748	1,757	1,277	1,454	1,806	1,118	1,184	63.1
CANTON.....	920	1,689	1,747	1,065	620	561	497	502	623	725	831	1,021	1,159	28.4
CENTRALIA.....	237	230	222	234	248	241	240	240	249	255	238	221	226	86.7
CHAMPAIGN.....	382	311	319	337	364	392	425	425	415	423	406	387	380	73.2
CHICAGO.....	313,710	319,741	322,463	323,852	317,311	313,745	314,685	310,170	305,464	308,646	315,356	306,967	306,120	94.3
CHICAGO HEIGHTS.....	4,288	4,217	4,278	4,407	4,609	4,502	4,376	4,402	3,754	3,946	4,533	4,026	4,406	81.4
DANVILLE.....	2,109	2,473	2,498	1,998	1,868	1,857	1,881	2,166	2,239	2,159	2,092	2,016	2,081	73.5
DECATUR.....	4,003	3,913	3,913	4,080	4,165	4,028	4,223	4,052	4,002	4,017	4,004	3,892	3,747	88.7
EAST ST. LOUIS.....	5,863	6,055	5,758	5,814	5,964	6,018	6,093	6,000	6,078	5,852	5,433	5,064	4,964	81.3
ELGIN.....	5,529	5,591	5,570	5,627	5,514	5,513	5,634	5,482	5,425	5,582	5,478	5,467	5,465	96.3
EVANSTON.....	924	931	902	913	945	859	887	910	978	970	953	938	902	87.8
FREEPORT.....	2,566	2,756	2,854	2,819	2,714	2,626	2,537	2,417	2,547	2,597	2,412	2,188	2,325	76.7
GALESBURG.....	1,362	1,360	1,370	1,389	1,405	1,334	1,308	1,371	1,404	1,409	1,378	1,341	1,275	90.5
GRANITE CITY.....	5,090	5,567	5,493	6,104	6,098	5,123	4,886	3,864	5,420	5,760	4,605	4,336	3,324	62.6
JACKSONVILLE.....	932	950	922	918	921	901	936	970	981	992	945	891	857	86.4
JOLIET.....	4,999	4,819	5,048	5,438	5,642	5,580	5,200	5,074	4,987	4,768	4,722	4,524	4,186	74.2
KANKAKEE.....	1,430	1,244	1,297	1,353	1,434	1,472	1,550	1,557	1,558	1,504	1,483	1,350	1,358	79.8
Kewanee.....	2,837	2,718	2,790	3,065	2,924	2,860	2,830	2,837	2,917	2,879	2,828	2,700	2,696	88.0
LA SALLE.....	1,214	1,164	1,166	1,182	1,193	1								

MANUFACTURES—ILLINOIS.

Prevailing hours of labor.—In Table 11 the average number of wage earners reported, for 1914 and 1909, for all industries combined and for selected industries throughout the state, have been classified according to the number of hours of labor per week prevailing in the establishments in which they were employed.

A similar classification is given for 1914 only, for all industries combined in each city having more than 10,000 inhabitants. The number employed in each establishment is classified as a total, even though a few employees worked a greater or less number of hours.

Table 11

Table 11	INDUSTRY AND CITY.	Census year.	AVERAGE NUMBER OF WAGE EARNERS.							
			Total.	In establishments where the prevailing hours of labor per week were—						
				48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72.	Over 72.
All industries	1914	506,943	79,601	99,322	113,574	102,074	88,238	16,676	4,831	2,027
	1909	465,764	55,055	50,781	120,236	95,908	106,090	10,222	12,389	15,083
Agricultural implements	1914	19,556	1,197	730	566	13,752	3,311			
	1909	19,240			386	13,664	5,077	113		
Automobiles, including bodies and parts	1914	2,545	183	539	833	897	93			
	1909	2,382	46	250	994	363	713	16		
Boots and shoes, including cut stock and findings	1914	6,397	33	195	1,395	4,525	249			
	1909	5,792	6	57	673	3,956	1,100			
Boxes, fancy and paper	1914	4,586	414	843	846	2,145	159	179		
	1909	4,085	72	1,412	893	1,348	281	79		
Bread and other bakery products	1914	10,404	964	2,046	4,678	480	2,064	147	24	1
	1909	8,611	673	609	4,243	711	1,821	376	132	40
Brick, tile, pottery, and other clay products	1914	8,610	2,089	1,621	1,763	633	2,154	350		
	1909	9,731	2,862	27	1,632	1,463	3,697	50		
Canning and preserving	1914	2,560	21	111	205	980	1,238	5		
	1909	2,383	61	153	74	276	1,672		109	38
Carriages and wagons and materials	1914	4,861	434	240	922	2,487	778			
	1909	5,852	114	82	1,133	3,077	1,442		4	
Cars and general shop construction and repairs by steam-railroad companies	1914	28,682	5,863	6,491	11,236	104	1,551	3,187		250
	1909	23,131	374	1,605	13,329	578	2,378	4,785		82
Cars, steam-railroad, not including operations of railroad companies	1914	18,000		1,009	12,949	1,115	2,927			
	1909	10,945	3	530	5,926	2,520	1,953			13
Clocks and watches, including cases and materials	1914	5,688	2	3,932	1,707	47				
	1909	5,665	1	4,328	634	663	39			
Clothing, men's, including shirts	1914	35,119	7,481	19,657	5,077	2,674	229		1	
	1909	30,152	6,043	4,503	13,619	10,400	1,587			
Clothing, women's	1914	8,113	671	4,363	2,213	815	51			
	1909	6,151	649	3,256	1,563	594	89			
Confectionery	1914	5,009	178	638	1,455	1,679	1,033	22		4
	1909	3,799	154	390	619	1,259	1,376	1		
Copper, tin, and sheet-iron products	1914	7,445	1,586	602	1,193	3,366	608			
	1909	7,473	1,506	129	1,144	3,136	1,473	85		
Electrical machinery, apparatus, and supplies	1914	16,483	352	14,680	750	687	14			
	1909	9,641	186	8,172	734	453	90			6
Flour-mill and gristmill products	1914	2,398	97	4	111	82	1,294	406	404	
	1909	2,464	310	50	24	19	1,229	331	471	30
Foundry and machine-shop products	1914	55,261	3,482	7,869	20,328	15,236	8,319	26	1	
	1909	52,266	785	3,431	22,321	13,972	11,054	26		677
Furnishing goods, men's	1914	2,775	647	737	1,249	101	41			
	1909	2,688	1,140	655	120	741	32			
Furniture and refrigerators	1914	13,766	928	1,773	4,614	2,694	3,757			
	1909	13,575	216	708	5,617	805	6,229			
Gas and electric fixtures and lamps and reflectors	1914	2,078	120	248	1,164	406	140			
	1909	2,090	56	445	1,332	238	19			
Gas, illuminating and heating	1914	3,890	15		100	2,801	125	307		542
	1909	6,301	7		3	138	562	144	8	5,439
Glass	1914	3,764	180	1,203	663	1,398	320			
	1909	3,507	94	957	80		676		240	1,460
Hosiery and knit goods	1914	3,535	266	525	511	1,786	447			
	1909	2,913	83	553	78	1,320	879			
Iron and steel, steel works and rolling mills	1914	15,408	1,469	2,003	639	94	2,656	5,689	2,858	
	1909	17,584			2,763	1,142	3,230	247	10,074	128
Leather goods	1914	2,325	125	482	558	1,022	137		1	
	1909	2,949	107	155	1,091	1,218	300	78		
Leather, tanned, curried, and finished	1914	2,678		102	78	2,138	360			
	1909	3,001		313	57	1,197	1,434			
Liquors, malt	1914	5,749	5,066	193	354	114	22			
	1909	4,398	3,127	40	714	310	169	7	31	

Table 11—Continued.

INDUSTRY AND CITY.	Census year.	AVERAGE NUMBER OF WAGE EARNERS.							
		Total.	In establishments where the prevailing hours of labor per week were—						
			48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72. Over 72.
Lumber and timber products.....	1914	14,870	1,646	2,697	3,072	4,849	2,585	20	1
	1909	16,567	870	461	4,882	5,231	5,087	3	1
Millinery and lace goods.....	1914	3,323	641	1,118	609	716	239		
	1909	3,328	557	1,348	688	626	109		
Musical instruments, pianos and organs and materials.....	1914	8,334	318	1,768	3,814	1,804	630		
	1909	8,777	121	564	4,604	842	2,046		
Paints and varnishes.....	1914	2,110	49	433	358	1,053	182	35	
	1909	1,792	152	217	148	982	281	12	
Printing and publishing.....	1914	32,838	24,447	5,181	2,698	312	200		
	1909	28,644	18,064	4,495	3,983	1,293	629	57	122
Slaughtering and meat packing.....	1914	31,627	1,032	447	1,116	2,795	26,179	56	2
	1909	26,705	2,900	45	1,143	57	22,557	3	
Smelting and refining, zinc.....	1914	3,573	70			1,054	1,890	559	
	1909	1,922				702	698	522	
Soap.....	1914	2,144	5	194	24	1,300	621		
	1909	2,188	8	95	19	49	2,015		2
Stoves and furnaces, including gas and oil stoves.....	1914	3,917	644	80	966	828	1,399		
	1909	4,499	430	53	1,107	811	2,098		
Tobacco manufactures.....	1914	7,653	4,400	923	389	1,094	843	4	
	1909	8,034	4,963	700	508	1,028	833	2	
All other industries.....	1914	98,869	12,486	13,645	22,371	22,011	19,803	5,684	1,539
	1909	88,539	8,315	9,992	21,358	18,726	18,536	3,285	1,195
Total for cities ¹	1914	408,976	69,693	81,497	97,862	82,802	60,481	11,138	3,822
ALTON.....	1914	2,662	135	141	184	1,521	595	84	2
AURORA.....	1914	4,777	697	1,090	1,817	395	756	8	14
BELLEVILLE.....	1914	2,450	511	207	1,300	399	33		
BLOOMINGTON.....	1914	2,384	335	31	292	180	113	1,382	51
CAIRO.....	1914	1,522	73	20	107	748	467	63	39
CANTON.....	1914	920	139	87	17	658	16	3	
CENTRALIA.....	1914	237	56		25	116	7	14	11
CHAMPAGNE.....	1914	382	88	38	51	57	80	8	60
CHICAGO.....	1914	313,710	54,334	67,035	80,985	60,110	43,683	5,760	434
CHICAGO HEIGHTS.....	1914	4,288	382	1,129	709	953	1,012	103	
DANVILLE.....	1914	2,109	246	120	1,352	160	101	41	24
DECATUR.....	1914	4,003	1,550	151	1,082	614	485	50	35
EAST ST. LOUIS.....	1914	5,863	397	307	1,550	412	2,007	1,091	77
ELGIN.....	1914	5,529	578	3,559	827	335	220		10
EVANSTON.....	1914	924	106	34	111	647	18	3	5
FREEPORT.....	1914	2,566	668	50	424	864	551	4	5
GALESBURG.....	1914	1,362	208	38	725	253	108	14	16
GRANITE CITY.....	1914	5,090	1,462	2,019	15	1,027	560	7	
JACKSONVILLE.....	1914	932	340	24	63	412	60	8	25
JOLIET.....	1914	4,999	653	349	118	554	704	44	1,958
KANKAKEE.....	1914	1,430	158	120	179	765	184	14	2
KEWANEE.....	1914	2,837	24	761	407	1,590	47		8
LA SALLE.....	1914	1,214	53	4	10		885	257	5
LINCOLN.....	1914	239	105	7		34	21		
MATTOON.....	1914	735	37		551	11	93	6	37
MOLINE.....	1914	5,053	1,482	237	621	2,032	678	3	
OAK PARK.....	1914	268	56	104	35	65	8		
PEKIN.....	1914	634	78	1	88	2	454		11
PEORIA.....	1914	6,285	1,647	346	842	1,191	1,775	131	237
QUINCY.....	1914	3,067	604	169	1,004	167	894	218	11
ROCK ISLAND.....	1914	1,837	391	39	559	797	34	11	2
ROCKFORD.....	1914	10,472	879	947	986	4,503	2,963	97	22
SPRINGFIELD.....	1914	4,157	934	1,322	297	933	538	66	35
STREATOR.....	1914	1,763	252	978	325	100	75	28	5
WAUKEGAN.....	1914	2,276	35	33	132	197	256	1,620	3

¹ Statistics for Cicero can not be shown without disclosure of individual operations.

The figures in the preceding table emphasize the tendency toward a shortening of the working day of wage earners. In 1909, 143,784, or 30.9 per cent of the total average number of wage earners in all industries combined, were employed in establishments where the prevailing hours of labor were 60 or more per week, while but 112,372, or 22.2 per cent, were so employed in 1914. On the other hand, the number of wage earners in the establishments operating less than 60 hours per week increased from 321,980 in 1909 to 394,571 in 1914, or from 69.1 per cent to 77.8 per cent

of the total wage earners in the state in 1914. There was a marked increase during the five-year period in the proportion of wage earners employed 54 hours or less per week and a decided decrease in the proportion working 72 hours and over.

In the foundries and machine shops, the average number of wage earners employed 54 hours or less per week increased from 50.8 per cent of the total for the industry in 1909 to 57.3 per cent in 1914. The decrease in hours of labor in this industry is still further accentuated by the small number of wage earners in

shops operating 60 hours or more per week in 1914 as compared with 1909. Other industries showing a pronounced decrease in working hours are railroad repair shops, men's clothing, and printing and publishing.

Of the 408,967 wage earners reported for the 35 cities, of more than 10,000 inhabitants in 1914, 331,854, or 81.1 per cent, were in establishments where the pre-

vailing hours were less than 60 per week, while 77,122, or 18.9 per cent, were in establishments in which the hours were 60 or more per week.

Location of establishments.—Table 12 shows, for 1914, 1909, and 1899, the extent to which the manufactures in Illinois were centralized in the cities of more than 10,000 inhabitants.

Table 12	Census year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER. ¹								DISTRICTS OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER. ²	
			Total.		10,000 to 25,000. ¹		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Percent of aggregate.	Number or amount.	Percent of aggregate.	Number or amount.	Percent of aggregate.	Number or amount.	Percent of aggregate.		
Number of places.....	1914		35	-----	20	-----	14	-----	1	-----		
	1910		32	-----	20	-----	11	-----	1	-----		
	1900		25	-----	18	-----	6	-----	1	-----		
Population ³	1914	5,986,781	3,276,504	54.7	318,472	5.3	560,432	9.4	2,397,600	40.0	2,710,277	45.3
	1910	5,638,591	2,950,963	52.3	331,285	5.9	434,395	7.7	2,185,283	38.8	2,687,628	47.7
	1900	4,821,550	2,218,080	46.0	302,885	6.3	216,570	4.5	1,698,575	35.2	2,603,520	54.0
Number of establishments....	1914	18,388	13,218	71.9	1,091	5.9	2,012	10.9	10,115	55.0	5,170	28.1
	1909	18,026	12,520	69.5	1,076	6.0	1,788	9.9	9,656	53.6	5,508	30.5
	1899	14,374	9,695	67.4	1,080	7.5	947	6.6	7,668	53.3	4,679	32.6
Average number of wage earners.	1914	506,943	408,976	80.7	33,807	6.7	61,459	12.1	313,710	61.9	97,967	19.3
	1909	466,764	379,100	81.4	32,893	7.1	52,230	11.2	293,977	63.1	86,664	18.6
	1899	332,871	279,322	83.9	31,372	9.4	26,759	8.0	221,191	66.4	53,549	16.1
Value of products.....	1914	\$2,247,322,819	\$1,843,239,978	82.0	\$116,627,056	5.2	\$243,114,506	10.8	\$1,483,498,416	66.0	\$404,082,841	18.0
	1909	1,919,276,594	1,592,407,931	83.0	109,948,749	5.7	201,288,001	10.5	1,281,171,181	66.8	326,868,663	17.0
	1899	1,120,868,308	957,089,720	85.3	59,860,869	5.3	99,349,710	8.9	797,879,141	71.2	163,778,588	14.6
Value added by manufacture.	1914	907,139,412	757,599,917	83.5	52,843,874	5.8	123,191,021	13.6	581,565,022	64.1	149,539,495	16.5
	1909	758,349,904	640,926,356	84.5	45,869,118	6.0	104,494,815	13.8	490,562,423	64.7	117,423,548	15.5
	1899	439,418,186	378,306,775	86.1	29,120,558	6.6	53,529,477	12.2	295,656,740	67.3	61,111,411	13.0

¹ Statistics for Cicero can not be shown without disclosure of individual operations.

² Includes statistics for Cicero.

³ Census estimate of population for 1914.

Table 12 shows that the increase in the manufactures of the state was general and extended to both the urban and rural districts. During the 15 years covered by the table the value of products for the urban districts, represented by the cities of 10,000 inhabitants or over, nearly doubled, while that reported for rural districts increased 146.7 per cent. The relative importance of the manufactures, as measured by average number of wage earners, value of products, and value added by manufacture, has increased for districts outside the cities, while the proportion of the cities as measured by these items has decreased. Comparisons for the cities or for the districts outside are affected by the increase in the population of cities. Centralia, Kewanee, Pekin, and Granite City, each had less than 10,000 inhabitants in 1909, and statistics for these cities were at that date, therefore, included with those for outside districts; while in 1914 they are classed with places having a population of 10,000 and over. Similar changes took place from 1900 to 1910, which make it impossible to show the same cities in the same group at each census.

The 35 cities, which contained 55 per cent of the estimated population of the state in 1914, reported 82 per cent of the total value of products and 80.7 per cent of the total average number of wage earners. The corresponding proportions for 1909 differed only lightly from those which obtained in 1914.

The relative importance in manufactures of each of the 35 cities having more than 10,000 inhabitants, as measured by the average number of wage earners and by value of products in 1914, 1909, and 1904, is shown in Table 13. Those for which comparative figures are not shown for 1909 and 1904 had less than 10,000 inhabitants in those years. Statistics for Cicero are omitted in order to avoid disclosure of individual operations.

In 10 of the cities shown in Table 13, there were increases in the average number of wage earners and in the value of products for each of the five-year periods 1904-1909 and 1909-1914. The other cities show fluctuations of increase and decrease in the two items at the same census periods.

Chicago is not only the most important manufacturing city in Illinois but, as measured by the value of products, ranks second only to New York among the cities of the United States. Its manufactures were valued at \$1,483,498,416, and its industries furnished employment to an average of 313,710 wage earners in 1914. There were only four states besides Illinois—namely: New York, Pennsylvania, Massachusetts, and Ohio—which exceeded Chicago in total value of products in 1914. The average number of wage earners increased 6.7 per cent and the total value of products 15.8 per cent during the 1909-1914 period, as compared with 21.5 per cent and 34.1 per cent, respectively, for the preceding five-year period.

CITY. ¹	AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.		
	1914	1909	1904	1914	1909	1904
Chicago.....	313,710	293,977	241,984	\$1,483,498,416	\$1,281,171,181	\$955,036,277
Peoria.....	6,285	5,981	5,834	64,689,045	63,061,155	60,419,598
Joliet.....	4,999	6,383	5,792	30,091,415	38,816,523	32,897,110
East St. Louis.....	5,803	5,226	4,505	26,904,555	18,103,788	10,586,320
Rockford.....	10,472	9,309	7,239	26,371,219	22,265,740	15,276,129
Moline.....	5,053	5,387	3,987	19,925,106	20,663,848	13,158,429
Granite City.....	5,090	.....	.....	17,903,162	.....	.....
Chicago Heights.....	4,288	3,953	.....	14,485,599	10,839,208	.....
Alton.....	2,062	2,429	3,009	12,864,532	10,096,333	8,696,814
Waukegan.....	2,276	2,956	2,265	12,438,514	19,540,700	10,994,247
Decatur.....	4,003	2,699	2,340	11,957,406	9,767,988	8,067,302
Springfield.....	4,157	3,652	3,071	11,769,989	8,497,245	5,796,637
Aurora.....	4,777	5,095	4,078	10,789,383	10,954,173	7,329,028
Elgin.....	5,529	6,067	4,885	10,491,829	10,537,052	9,349,274
Pekin.....	634	.....	.....	9,609,500	.....	.....
Quincy.....	3,067	3,997	4,602	9,556,818	11,065,809	10,748,224
Freeport.....	2,566	2,853	1,516	7,446,977	7,811,277	3,109,302
Rock Island.....	1,837	1,754	1,703	6,487,859	5,386,776	6,332,967
Belleville.....	2,450	1,872	1,765	5,727,209	4,614,698	4,356,615
Kewanee.....	2,837	.....	.....	5,446,615	.....	.....
Danville.....	2,109	1,744	1,884	6,291,160	3,350,596	3,304,120
La Salle.....	1,214	1,936	1,197	5,245,780	4,327,551	3,158,173
Bloomington.....	2,384	2,077	2,275	4,803,808	4,807,930	5,777,060
Cairo.....	1,522	1,237	1,435	4,583,539	4,440,148	4,381,465
Evanston.....	924	837	738	3,984,824	3,778,298	2,550,520
Streator.....	1,763	1,275	1,544	3,886,617	2,137,252	1,888,894
Kankakee.....	1,430	1,349	1,038	3,193,020	2,725,171	2,088,143
Galesburg.....	1,362	1,465	1,447	3,182,129	2,619,091	2,217,772
Canton.....	920	1,202	.....	2,576,965	2,941,625	.....
Jacksonville.....	932	947	899	2,355,192	2,288,700	1,981,582
Oak Park.....	268	282	.....	1,555,083	1,117,697	.....
Mattoon.....	735	948	1,022	1,543,727	1,434,420	1,308,781
Champaign.....	382	273	289	1,244,696	846,489	486,220
Centralia.....	237	.....	.....	767,533	.....	.....
Lincoln.....	239	220	236	560,637	570,243	784,248

¹ Statistics for Cicero can not be shown without disclosure of individual operations.
² Figures do not agree with those published because it was necessary to revise them in order to include data only for those establishments located within the corporate limits of the city.

The principal industries of Chicago for which statistics can be presented separately, arranged in the order of value of products, are shown in the following table, which gives the absolute and relative increase from 1909 to 1914, and also the percentage which the value of products for each industry represents of the corresponding total for the state.

INDUSTRY.	CHICAGO—VALUE OF PRODUCTS: 1914.			
	Amount.	Per cent of industry total for the state.	Increase ¹ over 1909.	
			Amount.	Per cent.
All industries.....	\$1,483,498,416	66.0	\$202,327,235	15.8
Slaughtering and meat packing.....	410,709,225	84.0	85,647,538	26.3
Printing and publishing.....	97,506,966	86.4	23,296,157	31.4
Foundry and machine-shop products.....	85,359,436	60.4	-4,309,926	-4.8
Clothing, men's, including shirts.....	84,339,611	94.6	-956,796	-1.1
Cars, steam-railroad, not including operations of railroad companies.....	50,930,691	83.1	30,038,675	143.8
Bread and other bakery products.....	34,217,248	75.6	7,309,010	27.2
Liquors, malt.....	28,933,288	73.4	9,420,882	48.3
Lumber and timber products.....	28,711,190	68.3	-3,997,535	-12.2
Iron and steel, steel works and rolling mills.....	27,001,775	41.5	-18,982,007	-41.3
Furniture and refrigerators.....	24,132,848	73.1	3,620,464	17.7
Paint and varnish.....	22,810,675	93.1	3,808,227	20.4
Tobacco manufactures.....	21,460,007	82.4	4,827,492	29.0
Soap.....	21,255,430	99.2	1,316,389	6.6
Confectionery.....	20,348,661	91.9	9,126,225	81.3
Clothing, women's.....	19,211,137	92.6	3,534,212	22.5
Electrical machinery, apparatus, and supplies.....	17,568,424	38.5	-3,100,081	-15.0
Cars and general shop construction and repairs by steam-railroad companies.....	16,687,929	40.2	1,329,104	8.7
Leather, tanned, curried, and finished.....	15,662,742	89.5	2,419,192	18.3
Copper, tin, and sheet-iron products.....	13,236,073	53.3	994,123	8.1
Musical instruments, pianos and organs and materials.....	12,670,705	64.3	1,183,241	10.3
Patent medicines and compounds and druggists' preparations.....	10,808,693	71.9	448,709	4.3

¹ A minus sign (—) denotes decrease.

The importance of the slaughtering and meat-packing industry in Chicago is apparent when it is noted that its value of products formed 27.7 per cent of the total for all manufacturing industries in the city and 24.9 per cent of the total for the industry in the United States.

In addition to the 149 industries presented separately for Chicago in Table 44, there were 125 others, which for various reasons are included under the head of "all other industries." Some of these industries were among the most important in the city, 43 reporting products in 1914 exceeding \$1,000,000 in value.¹ Of these, 6 reported products valued at \$10,000,000 or over; 3 products between \$5,000,000 and \$10,000,000, and 34, between \$1,000,000 and \$5,000,000 in value.

Peoria, the second city in the state in value of manufactures, reported products valued at \$64,689,045 in 1914, an increase of 2.6 per cent over the figures for 1909. The leading industry in the city is distilled liquors, and others of importance are slaughtering and meat packing, printing and publishing, the manufacture of agricultural implements, paper and wood pulp, malt liquors, cooperage, cordage and twine, food preparations, and bakery products.

Joliet holds third place among the manufacturing cities of Illinois. The value of its manufactured products decreased 22.5 per cent and the average number of wage earners employed decreased 21.7 per cent for the five-year period 1909–1914. The operations of steelworks and rolling mills and of blast furnaces, and the manufacture of coke and wire, were the chief industries in 1914.

East St. Louis shows an increase of 48.6 per cent in value of products between 1909 and 1914. The principal industries were flour mills and gristmills, chemicals, slaughtering and meat packing, rolling mills, foundries and machine shops, paints, and steam-railroad repair shops.

Rockford maintained its high average in wage earners, but the number employed in 1914 (10,472) was an increase of only 12.5 per cent over 1909. The furniture factories, knitting mills, and foundries and machine shops furnished employment to more than one-half of the total wage earners reported for the city.

¹ These industries are:

Agricultural implements.	Lead, bar, pipe, and sheet.
Babbitt metal and solder.	Millinery and lace goods.
Belted leather.	Motorcycles, bicycles, and parts.
Butter, reworking.	Oil, linseed.
Cars and general shop construction and repairs by electric-railroad companies.	Oleomargarine.
Cash registers.	Optical goods.
Coffee and spice, roasting and grinding.	Paper and wood pulp.
Coke.	Pottery products.
Cordage and twine.	Printing and publishing, music.
Cordials and flavoring sirups.	Rubber goods, not elsewhere specified.
Corsets.	Saws.
Fertilizers.	Sewing machines and attachments.
Flour-mill and gristmill products.	Silk goods, not including throwsters.
Gas, illuminating and heating.	Smelting and refining, lead.
Gloves and mittens, leather.	Sporting and athletic goods.
Glue.	Springs, steel, car, and carriage, not made in steel works or rolling mills.
Gold and silver, reducing and refining, not from the ore.	Stationery goods.
Instruments, professional and scientific.	Surgical appliances.
Iron and steel, blast furnaces.	Upholstering materials.
Labels and tags.	Wall paper, not made in paper mills.
Lamps and reflectors.	Wire.
	Wool scouring.

In value of products, Rockford ranked fifth among the cities of the state and showed an increase of 18.4 per cent for the five-year period 1909-1914. In addition to the industries mentioned, the manufacture of agricultural implements, pianos, carriages and wagons, and saddlery were also of importance.

The importance of the agricultural-implement industry in Moline is apparent when it is noted that its value of products formed 48.9 per cent in the total for all manufacturing industries in the city. The manufacture of automobiles and carriages and wagons are also among the leading industries. The city, however, shows a decrease of 3.6 per cent in the total value of products for the five-year period 1909-1914.

The chief industries in Granite City are the manufacture of rolling-mill products, glucose, babbitt metal and solder, stamped and enameled ware, and tinplate.

In Chicago Heights the operation of steelworks and rolling mills, foundry and machine shops, steam-railroad car construction shops, and the manufacture of chemicals are the leading industries. The percentage of increase for the total value of products was 33.6 per cent for the five-year period 1909-1914.

Alton shows an increase of 27.4 per cent in the total value of products from 1909 to 1914. The most important industries were the flour mills, glass factories, and slaughtering and meat packing.

Waukegan shows a decrease in the total value of products for the five-year period 1909-1914 of 36.3 per cent, due to removal of plants from the city limits. The rolling mills, the preparation of food products, the manufacture of gas, and leather, tanned, curried, and finished, contributed most to the city's industrial importance.

Decatur increased 48.3 per cent in the number of wage earners and 22.4 per cent in the total value of products from 1909 to 1914. The leading industries were steam-railroad repair shops and the manufacture of plumbers' supplies, and starch.

Springfield shows an increase in the total value of products of 38.5 per cent for the five-year period 1909-1914. The industries of most importance were the flour mills; the manufacture of boots and shoes; watches; smelting and refining, zinc; agricultural implements; the printing and publishing business; electrical machinery; and the breweries.

In Aurora the leading industries are steam-railroad repair shops, foundry and machine shops, the manufacture of corsets, and builders' hardware. The city shows for the five-year period 1909-1914 a decrease of 1.5 per cent in the total value of products.

Elgin is widely known for the manufacture of watch movements. Other important industries for 1914 are printing and publishing, the condensed-milk factories, and the making of watch cases. The city shows a slight decrease in total value of products for the census period 1909-1914.

The principal industries of the other incorporated

places appearing in Table 13 are shown in the following statement:

CITY.	Principal industries.
Pekin.....	Liquors, distilled. Glucose and starch. Cooperage.
Quincy.....	Stoves and furnaces, not including gas and oil stoves. Liquors, malt. Patent medicines and compounds and perfumery and cosmetics.
Freeport.....	Foundry and machine-shop products. Patent medicines and compounds. Carriages and wagons. Windmills.
Rock Island.....	Engines, gas and gasoline. Agricultural implements.
Belleville.....	Lumber, planing-mill products. Stoves and furnaces, not including gas and oil stoves. Flour-mill and gristmill products. Liquors, malt.
Kewanee.....	Steam fittings, and steam and hot water apparatus.
Danville.....	Foundry and machine-shop products.
La Salle.....	Cars and general shop construction and repairs by steam-railroad companies.
Bloomington.....	Smelting and refining, zinc. Cement.
Cairo.....	Cars and general shop construction and repairs by steam-railroad companies.
Evanston.....	Lumber and timber products.
Streator.....	Iron and steel, wrought pipe.
Kankakee.....	Glass.
Galesburg.....	Cotton goods. Hosiery and knit goods.
Canton.....	Cars and general shop construction and repairs by steam-railroad companies.
Jacksonville.....	Foundry and machine-shop products. Agricultural implements.
Oak Park.....	Slaughtering and meat packing, wholesale.
Mattoon.....	Clothing, men's. Structural ironwork.
Champaign.....	Gas, illuminating and heating.
Centralia.....	Cars and general shop construction and repairs by steam-railroad companies.
Lincoln.....	Printing and publishing. Gas, illuminating and heating.
	Envelopes.
	Coffins, burial cases, and undertakers' goods.

Chicago metropolitan district.—The Chicago metropolitan district embraces 409,087 acres, of which 120,210 acres represent the area of Chicago, and 288,877 acres, the outside territory. The estimated population of Chicago in 1914 was 2,397,600, and that of the outside territory 308,824, the total for the district being 2,706,424. The district comprises, in addition to the city of Chicago, the townships of Berwyn, Bloom, Calumet, Cicero, Evanston, Leyden, Lyons, Maine, New Trier, Niles, Norwood Park, Oak Park, Proviso, Ridgeville, Riverside, Stickney, Thornton, and Worth, all in Cook County, Illinois, and Calumet and North townships in Lake County, Indiana. Within these townships, or coextensive with them, there are seven incorporated places of 10,000 or more inhabitants. Of these, four are in Illinois: Chicago Heights city, in Bloom township; Cicero town, coextensive with Cicero township; Evanston city, coextensive with Ridgeville township; and Oak Park village, coextensive with Oak Park township. The remaining three, which are in Indiana, are East Chicago city and Hammond city, both in North township; and Gary city in Calumet township.

Summary for the district.—Table 15 is a summary for 1914 of the statistics of manufacturing industries, and gives a statement of the estimated population in 1914 for the Chicago Metropolitan District, for the cities of Chicago, Chicago Heights, East Chicago, Evanston, Hammond, Oak Park, and for the remainder of the district, the percentages which the figures for Chicago represent of the total for the district being shown for each item.

In 1914 the metropolitan district had 10,945 manufacturing establishments, which gave employment to 444,876 persons during the year and paid out \$353,484,061 in salaries and wages. Of the persons employed, 362,355 were wage earners. These establish-

ments manufactured products to the value of \$1,734,736,737, to produce which, materials were used costing \$1,055,945,118. The value added by manufacture was therefore \$678,791,619.

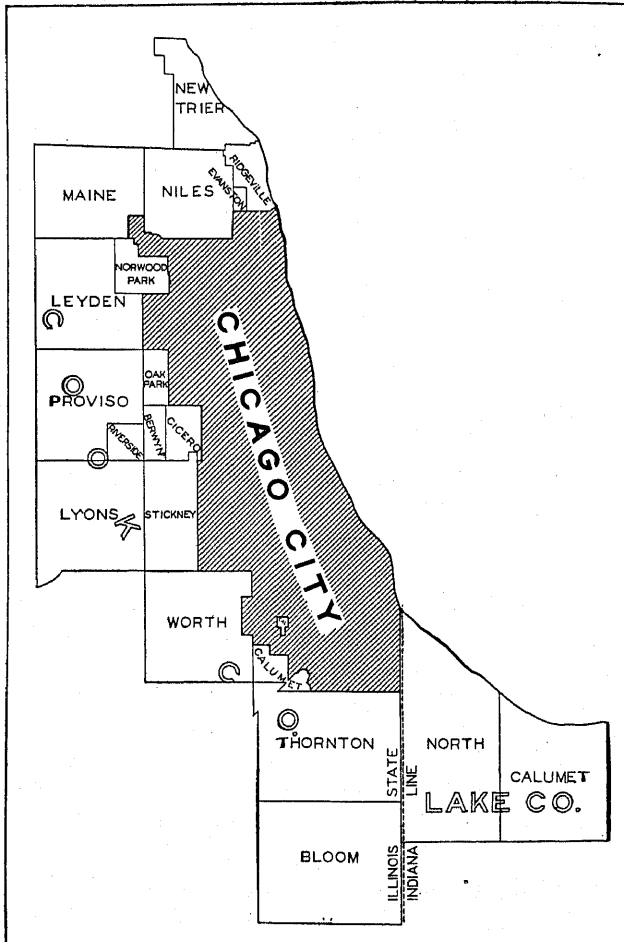
Table 15

Table 15	CHICAGO METROPOLITAN DISTRICT: 1914.									Per cent Chicago is of total for district.
	The district.	Chicago.	District exclusive of Chicago.							
			Total.	Chicago Heights.	East Chicago.	Evanston.	Hammond.	Oak Park.	Remainder. ¹	
Population ²	2,706,424	2,397,600	308,824	19,560	25,658	27,724	24,481	24,330	187,071	88.6
Number of establishments.....	10,945	10,115	830	77	79	49	82	47	496	92.4
Persons engaged in manufactures.....	444,876	387,319	57,557	5,018	8,468	1,153	5,274	366	37,278	87.1
Proprietors and firm members.....	8,898	8,184	714	46	58	48	73	47	442	92.0
Salaried employees.....	73,623	65,425	8,198	684	928	181	920	51	5,434	88.9
Wage earners (average number).....	362,355	313,710	48,645	4,288	7,482	924	4,281	268	31,402	86.6
Primary horsepower.....	972,617	681,114	291,503	21,002	44,676	2,249	9,825	1,113	212,638	70.0
Capital.....	\$1,479,115,609	\$1,190,068,927	\$289,046,682	\$20,350,251	\$38,705,588	\$2,616,841	\$24,041,835	\$5,155,238	\$198,176,929	80.4
Salaries and wages.....	353,484,061	304,031,882	49,452,179	4,101,869	7,976,685	888,889	3,763,588	291,119	32,430,028	86.0
Salaries.....	101,600,349	90,294,510	11,305,839	1,154,948	1,592,209	232,681	1,094,159	50,595	7,181,247	88.9
Wages.....	251,883,712	213,737,372	38,146,340	2,946,921	6,384,476	656,208	2,669,429	240,524	25,248,782	84.8
Rent and taxes (including internal revenue).....	35,657,138	28,882,807	6,774,331	111,126	204,044	28,143	3,920,854	16,062	2,494,102	81.0
Cost of materials.....	1,055,945,118	901,933,394	154,011,724	7,684,522	28,584,261	2,438,678	9,829,143	492,457	104,982,663	85.4
Value of products.....	1,734,736,737	1,483,498,416	251,238,321	14,485,569	41,623,788	3,984,824	20,584,408	1,555,083	169,004,649	85.5
Value added by manufacture.....	678,791,619	581,565,022	97,226,597	6,801,047	13,039,527	1,546,146	10,755,265	1,062,626	64,021,986	85.7

¹ Includes Cicero, Ill., and Gary, Ind., the statistics for which can not be shown without disclosing individual operations.

² Estimated population July 1, 1914.

The accompanying outline map shows the city of Chicago and the territory included in the metropolitan district.



Comparison with the earlier censuses.—Table 16 gives statistics for the district for 1914, 1909, and 1904. Percentages of increase are shown for the territory included in the metropolitan district for the decade and for each five-year period.

Table 16

	CHICAGO METROPOLITAN DISTRICT.			PER CENT OF INCREASE.		
	1914	1909	1904	1904-1914	1909-1914	1904-1909
Population.....	2,706,424	2,446,921	(³)	.....	10.6	.....
Number of establishments.....	10,945	10,202	8,382	30.6	7.3	21.7
Persons engaged.....	444,876	393,859	296,350	50.1	13.0	32.9
Proprietors and firm members.....	8,898	8,600	7,481	18.9	3.5	15.0
Salaried employees.....	73,623	59,335	40,380	80.1	24.1	45.1
Wage earners (average number).....	362,355	325,924	247,989	46.1	11.2	31.4
Primary horsepower.....	972,617	789,229	379,566	156.2	31.6	94.8
Capital.....	\$1,479,115,609	\$1,144,002,902	\$664,215,775	122.7	29.3	72.2
Salaries and wages.....	353,484,061	269,487,880	186,165,672	89.9	31.2	44.8
Salaries.....	101,600,349	71,160,747	46,336,318	119.3	42.8	53.6
Wages.....	251,883,712	198,327,133	139,829,354	80.1	27.0	41.8
Cost of materials.....	1,055,945,118	867,725,596	598,556,727	76.4	21.7	45.0
Value of products.....	1,734,736,737	1,408,779,818	970,974,280	78.7	23.1	45.1
Value added by manufacture (value of products less cost of materials).....	678,791,619	541,054,222	372,417,553	82.3	25.4	45.3

¹ Estimated population July 1, 1914.

² Apr. 15, 1910.

³ No population census.

⁴ Figures do not agree with those published because certain establishments revised their data.

The relative increase in all the items for which comparative figures are given in the table was smaller during the more recent five-year period 1909-1914 than during the period 1904-1909. For the decade the relative increase was much greater in primary horsepower, capital, and salaries, than in any other items.

Comparative summary, by industries.—Table 17 gives statistics for 1914 and 1909, so far as separate figures can be presented, for selected industries of the district each having products valued at \$3,000,000 or more.

MANUFACTURES—ILLINOIS.

Table 17

CHICAGO METROPOLITAN DISTRICT: 1914 AND 1909.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Persons engaged in industry.				Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufac- ture.
			Total.	Pro- pri- etors and firm mem- bers.	Sal- aried em- ploy- ees.	Wage earners, (aver- age num- ber.)							
All industries.....	1914 1909	10,945 10,202	444,876 393,859	8,898 8,000	73,023 59,335	362,355 325,924	972,617 739,229	\$1,479,115,609 1,144,002,902	\$101,600,349 71,160,747	\$251,883,712 198,327,133	\$1,055,945,118 867,725,590	\$1,734,736,737 1,408,779,818	\$678,791,619 541,054,222
Bread and other bakery products.	1914 1909	1,440 1,278	10,935 9,257	1,538 1,351	1,386 1,183	8,011 6,723	6,715 3,999	22,283,783 20,988,156	1,623,369 1,160,173	5,339,314 4,373,201	18,218,589 10,983,122	35,619,681 28,146,786	17,401,092 11,163,604
Brick, tile, pottery, and other clay products.	1914 1909	27 34	3,241 3,679	9 18	274 217	2,958 3,444	13,870 14,082	11,422,684 11,167,066	447,651 312,080	2,346,827 2,901,732	1,152,471 1,377,164	5,173,466 6,085,404	4,020,995 4,658,240
Canning and preserving.....	1914 1909	57 52	1,767 1,416	41 50	263 189	1,463 1,177	3,032 1,470	3,904,220 2,646,101	343,398 239,014	703,320 525,217	4,864,264 3,413,459	6,972,985 5,005,292	2,108,721 1,591,833
Cars and general shop construc- tion and repairs by steam-rail- road companies.	1914 1909	32 28	14,530 12,598	----- -----	813 596	13,717 12,002	16,084 9,995	21,930,657 10,703,708	838,906 639,835	9,694,910 7,962,234	9,067,350 7,639,305	20,254,175 16,451,913	11,186,825 8,812,608
Cars, steam-railroad, not includ- ing operations of railroad com- panies.	1914 1909	12 24	16,413 11,857	----- 2	874 907	15,539 10,948	27,052 18,556	29,725,689 39,641,537	1,195,640 1,025,728	13,922,995 7,577,576	32,388,912 14,752,493	50,930,691 25,402,246	18,541,779 10,709,753
Clothing, men's and women's.....	1914 1909	794 2,882	47,439 45,036	899 1,084	6,236 4,722	40,304 39,230	5,402 3,614	43,480,245 41,714,172	7,963,265 5,206,802	23,479,489 20,634,578	48,953,852 48,565,322	103,935,879 100,973,332	54,981,522 52,408,010
Confectionery.....	1914 1909	102 91	5,345 3,876	65 60	868 571	4,412 3,245	4,554 3,050	7,076,481 5,278,824	1,268,047 637,614	2,028,445 1,252,812	11,020,673 6,709,836	20,370,690 11,241,011	9,349,917 4,531,175
Copper, tin, and sheet-iron prod- ucts.	1914 1909	338 268	6,653 4,610	327 256	755 495	5,571 3,559	4,809 2,859	24,640,477 12,215,669	1,118,985 659,461	3,706,613 2,472,424	10,541,214 6,463,004	18,664,575 12,241,950	8,123,361 5,778,946
Food preparations.....	1914 1909	83 78	1,835 1,134	85 59	454 273	1,296 802	3,816 1,632	4,457,187 2,384,062	632,095 350,223	728,666 400,939	9,811,463 4,100,975	12,876,795 6,017,603	3,065,332 1,916,628
Foundry and machine-shop prod- ucts.	1914 1909	785 721	44,388 41,857	410 365	7,087 6,161	36,891 35,331	80,185 63,273	123,345,699 105,493,763	10,999,707 8,309,667	26,332,190 23,440,577	44,607,687 48,816,110	102,544,289 104,319,563	57,936,602 55,503,453
Furniture and refrigerators.....	1914 1909	224 208	11,775 11,188	157 151	1,469 1,080	10,149 9,857	19,080 14,454	20,110,754 16,495,370	2,104,917 1,456,603	6,658,430 6,076,242	11,337,245 9,146,266	24,611,860 20,638,171	13,274,615 11,491,905
Leather, tanned, curried, and fin- ished.	1914 1909	24 24	2,513 2,841	22 23	180 144	2,311 2,674	7,128 6,212	14,942,269 14,485,671	312,266 242,402	1,333,140 1,417,978	12,512,061 10,787,874	15,662,742 13,243,550	3,150,681 2,455,676
Liquors, malt.....	1914 1909	41 48	4,845 3,498	5 2	818 591	4,022 2,905	22,833 15,882	42,759,873 29,741,494	1,623,283 1,157,792	4,012,612 2,391,182	7,671,742 4,967,808	29,166,259 19,712,062	21,494,517 14,745,154
Lumber and timber products.....	1914 1909	246 213	10,715 11,912	142 135	1,171 1,124	9,402 10,653	27,530 26,580	19,863,220 18,344,078	1,791,567 1,476,062	6,568,799 6,291,122	17,881,538 21,250,785	30,446,005 33,569,593	12,504,467 12,318,808
Marble and stone work.....	1914 1909	145 127	1,751 1,748	174 134	205 146	1,372 1,468	4,421 3,107	3,197,485 2,777,051	309,298 232,662	1,167,431 1,203,929	1,464,984 1,854,232	3,798,727 4,231,289	2,333,743 2,377,057
Musical instruments, pianos and organs and materials.	1914 1909	51 42	6,089 7,185	19 12	704 648	5,366 6,525	6,016 5,670	26,655,273 21,348,793	1,088,589 908,446	3,557,311 3,720,625	5,834,850 6,311,560	13,923,174 14,555,453	8,088,324 8,243,893
Patent medicines and compounds and druggists' preparations.	1914 1909	277 277	2,921 3,019	152 164	1,455 1,492	1,814 1,363	1,657 2,030	5,183,234 5,379,189	1,889,576 1,512,267	790,939 633,486	3,214,172 3,223,163	10,851,426 10,376,264	7,637,254 7,153,101
Printing and publishing.....	1914 1909	1,632 1,466	39,646 34,950	1,191 1,130	11,458 10,195	26,997 23,625	27,018 21,481	65,818,412 49,958,455	14,406,084 10,907,660	20,509,568 15,657,361	29,765,210 21,830,421	99,114,654 76,070,564	69,349,444 54,240,143
Slaughtering and meat packing..	1914 1909	58 67	38,826 27,147	27 66	7,095 5,017	26,704 22,064	57,318 45,629	195,174,022 115,311,628	9,260,509 5,534,973	16,541,637 11,984,893	345,521,950 285,250,405	410,709,225 325,061,057	65,187,275 39,811,252
Tobacco manufactures.....	1914 1909	910 1,102	7,152 6,936	961 1,166	747 427	5,444 5,343	1,071 783	9,946,487 10,451,273	1,066,876 716,830	3,321,340 2,864,769	8,488,992 6,827,850	21,834,368 16,919,417	13,345,376 10,091,567
All other industries.....	1914 1909	3,667 3,172	171,097 148,115	2,674 2,372	29,311 23,157	139,112 122,586	633,026 474,371	783,197,458 607,476,842	41,316,321 28,474,453	99,139,736 74,544,256	421,625,899 337,454,442	697,275,676 558,505,798	275,649,777 221,051,355

¹ Figures do not agree with those published because certain establishments revised their figures.² Excludes statistics for establishments located outside the corporate limits of Chicago, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "all other industries."

There were 743 more establishments in the district in 1914 than in 1909, the number of wage earners increased 11.2 per cent and the value of manufactures, 23.1 per cent. The greatest gain in the value of products during this period was in the slaughtering and meat-packing industry, amounting to \$85,647,568.

Of the industries shown in the above table, foundries and machine shops, steam-railroad repair shops, the construction of cars for steam railroads, the manufacture of brick, tile, pottery, and food preparations, were the only ones which operated to any extent in that part of the district, which is outside the corporate limits of Chicago. The principal industry of the dis-

trict is slaughtering and meat packing, and, with the exception of two establishments, was confined to Chicago, for which figures are given in Table 14.

Character of ownership.—Table 18 presents statistics concerning the character of ownership, or legal organization, of manufacturing enterprises. For all industries combined, comparative figures are given for 1914, 1909, and 1904; for selected industries, statistics for 1914 and 1909 are shown; and for individual cities the figures are for all industries combined and relate to 1914 only. In order to avoid disclosing the operations of individual establishments, it is necessary to omit several important industries from this table.

Table 18

Table 18		Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
						In establishments owned by—			Per cent of total.			Of establishments owned by—			Per cent of total.								
			Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth-ers.				
All industries.....	1914	9,404	5,993	2,991	506,943	40,278	437,069	29,596	7.9	86.2	5.8	\$2,247,322,819	\$127,740,861	\$2,021,734,391	\$97,847,567	5.7	90.0	4.4					
	1909	8,654	5,209	3,163	465,764	46,524	374,855	44,355	10.0	80.5	9.5	1,919,276,594	134,438,296	1,646,518,916	138,319,382	7.0	85.8	7.2					
	1904	7,933	4,145	2,843	379,436	44,563	296,610	38,263	11.7	78.2	10.1	1,410,342,129	108,126,545	1,179,028,840	123,186,744	7.7	83.6	8.7					
Agricultural implements..	1914	11	51	11	19,556	48	19,443	65	0.2	99.4	0.3	65,337,663	151,057	65,017,298	169,308	0.2	99.5	0.3					
	1909	17	50	12	19,240	62	18,995	183	0.3	98.7	1.0	57,268,325	175,644	56,737,922	354,759	0.3	99.1	0.6					
Automobiles, including bodies and parts.	1914	18	54	19	2,545	130	2,198	217	5.1	86.4	8.5	11,018,162	441,607	9,994,802	581,753	4.0	90.7	5.3					
	1909	16	41	8	2,382	86	2,234	62	3.6	93.8	2.6	7,153,818	220,925	6,751,741	181,152	3.1	94.4	2.5					
Boots and shoes, including cut stock and findings.	1914	20	27	10	6,397	365	5,601	431	5.7	87.6	6.7	18,407,348	1,224,632	16,120,215	1,062,501	6.6	87.6	5.8					
	1909	17	27	9	5,792	510	4,883	399	8.8	84.3	6.9	16,754,704	1,516,025	14,423,438	815,241	9.0	86.1	4.9					
Brick, tile, pottery, and other clay products.	1914	81	98	56	8,610	508	7,543	559	5.9	87.6	6.5	14,221,869	682,672	12,559,887	979,310	4.8	88.3	6.9					
	1909	155	119	105	9,731	877	7,978	876	9.0	82.0	9.0	14,379,779	1,241,570	11,870,196	1,268,013	8.6	82.5	8.8					
Butter, cheese, and con- densed milk.	1914	75	131	61	1,755	123	1,511	121	7.0	86.1	6.9	21,792,220	1,951,763	18,065,494	1,774,963	9.0	82.9	8.1					
	1909	90	84	121	1,732	101	1,447	184	5.8	83.5	10.6	17,798,278	1,574,475	13,200,456	3,023,347	8.8	74.2	17.0					
Canning and preserving..	1914	39	61	17	2,560	356	2,146	58	13.9	83.8	2.3	10,121,497	893,819	9,035,273	192,405	8.8	80.3	1.9					
	1909	45	49	24	2,383	264	1,615	504	11.1	87.8	21.1	7,619,586	685,092	5,291,495	1,642,999	9.0	69.4	21.6					
Carriages and wagons and materials.	1914	173	55	68	4,861	491	4,023	347	10.1	82.8	7.1	15,192,466	1,074,655	13,802,150	815,661	7.1	87.6	5.4					
	1909	201	55	69	5,852	797	4,634	421	13.6	79.2	7.2	16,831,283	1,714,435	14,063,963	1,052,885	10.2	83.6	6.3					
Clothing, men's, includ- ing shirts.	1914	330	128	146	35,119	6,506	21,927	6,686	18.5	62.4	19.0	89,144,448	8,505,091	65,089,831	15,549,526	9.5	73.0	17.4					
	1909	449	86	180	36,152	8,378	9,360	18,414	23.2	25.9	50.9	89,472,755	12,400,131	28,038,929	49,038,695	13.9	31.3	54.8					
Clothing, women's.....	1914	107	61	73	8,113	1,994	3,881	2,238	24.6	47.8	27.6	20,750,550	4,455,699	10,168,703	6,126,148	21.5	49.0	29.5					
	1909	107	43	71	6,151	1,817	1,556	2,778	29.5	25.3	45.2	16,635,236	3,938,904	5,735,500	6,960,832	23.7	34.5	41.8					
Confectionery.....	1914	62	65	20	5,009	532	4,145	332	10.6	82.8	6.6	22,138,559	1,633,709	19,157,577	1,347,273	7.4	86.5	6.1					
	1909	66	52	22	3,799	437	3,164	198	11.5	83.3	5.2	12,798,077	1,868,845	10,799,205	630,027	10.7	84.4	4.9					
Copper, tin, and sheet- iron products.	1914	315	100	93	7,445	855	6,214	376	11.5	83.5	5.0	24,815,389	2,573,757	21,139,477	1,102,155	10.4	85.2	4.4					
	1909	283	98	102	7,473	1,008	5,488	977	13.5	73.4	13.1	22,822,810	2,742,344	17,057,438	3,023,028	12.0	74.7	13.2					
Flour-mill and gristmill products.	1914	193	97	116	2,398	420	1,660	318	17.5	69.2	13.2	49,493,224	7,281,852	37,022,238	5,189,134	14.7	74.8	10.5					
	1909	210	104	147	2,464	424	1,615	425	17.2	65.5	17.2	51,110,681	8,253,326	36,170,263	6,687,092	16.1	70.8	13.1					
Foundry and machine- shop products.	1914	412	740	219	55,261	2,622	50,370	2,269	4.7	91.1	4.1	141,328,624	6,025,629	129,974,136	5,328,859	4.3	91.9	3.8					
	1909	360	666	152	52,266	3,764	46,627	1,875	7.2	89.2	3.6	138,578,993	8,475,204	125,673,809	4,429,980	6.1	90.7	3.2					
Furniture and refrigera- tors.	1914	72	165	46	13,766	837	11,859	1,070	6.1	86.1	7.8	32,999,567	1,839,252	28,455,885	2,704,430	5.6	86.2	8.2					
	1909	88	137	42	13,575	1,224	11,370	981	9.0	83.8	7.2	27,900,262	2,409,423	23,294,772	2,196,067	8.6	83.5	7.9					
Leather goods.....	1914	212	48	44	2,325	584	1,362	379	25.1	58.6	16.3	7,982,276	1,819,315	4,753,588	1,409,373	22.8	59.6	17.6					
	1909	88	41	39	2,949	716	1,774	459	24.3	60.2	15.6	8,948,324	2,149,577	5,357,729	1,441,018	24.0	59.9	16.1					
Leather, tanned, curried, and finished.	1914	4	15	9	2,678	283	2,064	331	10.6	77.1	12.4	17,509,256	2,285,422	13,142,836	2,080,998	12.8	75.5	11.7					
	1909	4	16	9	3,001	201	2,475	325	6.7	82.5	10.8	14,911,782	1,086,872	12,140,482	1,684,428	7.3	81.4	11.3					
Lumber and timber prod- ucts.	1914	272	233	113	14,870	1,463	12,557	850	9.8	84.4	5.8	42,064,008	3,856,360	36,278,362	1,929,286	9.2	86.2	4.6					
	1909	437	207	170	16,567	2,369	13,093	1,105	14.3	79.0	6.7	44,951,804	5,419,920	37,239,293	2,292,591	12.1	82.8	5.1					
Millinery and lace goods..	1914	35	52	15	3,323	475	2,421	427	14.3	72.9	12.8	9,221,978	1,059,889	6,828,793	1,333,296	11.5	74.0	14.5					
	1909	39	35	29	3,328	373	2,121	834	11.2	63.7	25.1	7,281,914	696,519	6,631,152	1,954,243	9.6	63.6	26.8					
Paints and varnishes.....	1914	10	59	3	2,110	144	1,959	7	6.8	92.8	0.3	24,488,449	922,581	23,503,708	62,160	3.8	96.0	0.2					
	1909	10	59	5	1,792	115	1,610	67	6.4	89.8	3.7	20,434,291	675,344	19,256,053	502,894	3.3	94.2	2.5					
Patent medicines and compounds and drug- gists' preparations.	1914	134	196	33	1,844	294	1,482	68	15.9	80.4	3.7	15,031,507	1,653,359	12,986,484	391,664	11.0	86.4	2.6					
	1909	153	170	36	1,869	259	1,513	97	13.9	81.0	5.2	13,114,307	1,440,203	10,755,075	918,029	11.0	82.0	7.0					
Printing and publishing..	1914	1,387	880	455	32,838	3,913	26,636	2,289	11.9	81.1	7.0	112,833,427	11,554,995	95,254,720	6,023,712	10.2	84.4	5.3					
	1909	1,352	729	527	28,644	3,764	21,914	2,966	13.1	76.5	10.4	87,247,090	10,252,467	69,133,450	7,861,173	11.8	79.2	9.0					
Slaughtering and meat packing.	1914	28	55	15	31,627	671	30,709	247	2.1	97.1	0.8	489,230,324	11,846,275	474,026,286	3,357,763	2.4	96.9	0.7					
	1909	36	53	20	26,705	688	25,667	350	2.6	96.1	1.3	389,594,906	9,844,597	374,123,153	5,627,156	2.5	96.0	1.4					
Total for cities 1.....	1914	6,477	4,774	1,967	408,976	32,895	350,684	25,397	8.1	85.7	6.2	1,843,239,978	105,499,247	1,657,111,431	80,629,300	5.7	89.9	4.4					
ALTON.....	1914	40	28	8	2,662	140	2,383	139	5.3	89.5	5.2	12,864,532	438,816	12,098,442	327,174	3.4	94.0	2.6					
AURORA.....	1914	57	56	27	4,777	264	4,096	417	5.5	85.8	8.9	10,789,383	645,855	9,230,683	912,845	6.0	85.5	8.5					
BELLEVIEW.....	1914	71	35	23	2,450	205	2,125	120	8.4	86.7	4.7	5,727,269	370,898	5,140,553	615,828	6.5	89.8	3.7					
BLOOMINGTON.....	1914	48	32	20	2,384																		

Table 18—Continued.

Table 18—Continued.		NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
INDUSTRY AND CITY.	Cen- sus year.				Total.	In establishments. owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.				
KANKAKEE	1914	21	19	13	1,430	129	1,167	134	9.0	81.6	9.4	\$3,193,020	\$352,962	\$2,544,803	\$295,255	11.1	79.7	9.2				
KEWANEE	1914	11	9	11	2,837	17	2,746	74	0.6	96.8	2.6	5,446,615	54,481	5,070,774	321,360	1.0	93.1	5.9				
LA SALLE	1914	19	7	4	1,214	74	1,134	6	6.1	93.4	0.5	5,245,780	253,487	4,971,510	20,783	4.8	94.8	0.4				
LINCOLN	1914	17	10	13	239	50	146	43	20.9	61.1	18.0	560,637	106,930	367,932	85,775	19.1	65.6	15.3				
MATTOON	1914	24	14	9	735	57	641	37	7.8	87.2	5.0	1,543,727	239,151	1,091,074	213,502	15.5	70.7	13.8				
MOLINE	1914	41	50	17	5,053	104	4,925	24	2.1	97.5	2.5	19,925,106	406,291	19,422,034	96,781	2.0	97.5	0.5				
OAK PARK	1914	27	9	11	268	29	220	19	10.8	82.1	7.1	1,555,083	180,846	1,243,278	125,959	11.6	80.3	8.1				
PEKIN	1914	26	11	7	634	90	510	34	14.2	80.4	5.4	9,609,500	192,837	9,248,360	168,303	2.0	96.2	1.8				
PEORIA	1914	125	102	56	6,285	565	5,370	350	9.0	85.4	5.6	64,689,045	2,933,675	60,551,655	1,203,715	4.5	93.6	1.9				
QUINCY	1914	93	76	25	3,067	271	2,508	288	8.8	81.8	9.4	9,556,918	961,486	7,604,416	991,016	10.1	79.6	10.3				
ROCK ISLAND	1914	48	38	20	1,837	175	1,582	80	9.5	86.1	4.4	6,487,859	411,210	5,861,002	215,647	6.3	90.3	3.3				
ROCKFORD	1914	91	143	31	10,472	446	9,335	691	4.3	89.1	6.6	26,371,219	1,237,464	23,409,394	1,724,361	4.7	88.8	6.5				
SPRINGFIELD	1914	95	48	46	4,157	432	3,995	330	10.4	81.7	7.9	11,769,969	1,239,865	9,659,416	870,688	10.5	82.1	7.4				
STREATOR	1914	35	17	8	1,763	223	1,514	26	12.6	85.9	1.5	3,886,617	302,423	3,462,452	121,742	7.8	89.1	3.1				
WAUKEGAN	1914	27	15	6	2,276	74	2,192	10	3.3	96.3	0.4	12,438,514	242,976	12,130,063	65,475	2.0	97.5	0.5				

The marked trend toward the corporate form of ownership is indicated not only by the increase in the number of corporations reported but in the decrease since 1909 in the number of establishments owned by "individuals" and "all others." Corporations controlled only about a third of the establishments in the state, but they gave employment to 86.2 per cent of the total number of wage earners and manufactured 90 per cent of the total products, as measured by value. In 1909 this class represented 28.9 per cent of all establishments, employed 80.5 per cent of the total wage earners, and contributed 85.8 per cent of the total value of products. In all of the industries shown in the table, except women's clothing, the great bulk of manufactures was produced by establishments under corporate control. In the manufacture of agricultural implements, automobiles, including bodies and parts, foundry and machine-shop products, paints and var-

nishes, and in the slaughtering and meat-packing industry more than 90 per cent of the total value of products was credited to this class.

Establishments owned by individuals outnumber the other two forms of ownership combined. While this class represented 51.1 per cent of the 18,388 factories in the state, its proportion of the value of products was but 5.7 per cent of the total, and of the total average number of wage earners 7.9 per cent.

The cities, in general, reflect the same condition—namely, a preponderance of establishments owned by individuals—but the greater proportion of wage earners and value of products were reported by corporations.

Size of establishments.—The tendency for manufacturing to become concentrated in large establishments, or the reverse, is indicated by the statistics given in Table 19.

Table 19

VALUE OF PRODUCT.	NUMBER OF ESTAB- LISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1914	1909	1904	1914	1909	1904	1914	1909	1904	1914	1909	1904
All classes.....	18,388	18,026	14,921	506,943	465,764	379,436	\$2,247,322,819	\$1,919,276,594	\$1,410,342,129	\$907,139,412	\$758,349,904	\$570,284,813
Less than \$5,000.....	6,161	6,181	5,208	6,484	7,000	7,086	15,231,218	15,040,868	12,892,051	9,884,858	9,864,314	8,741,174
\$5,000 to \$20,000.....	5,899	5,823	4,795	24,881	27,327	26,594	60,715,479	59,794,517	49,128,916	36,484,976	36,175,677	30,404,938
\$20,000 to \$100,000.....	3,833	3,773	3,157	62,952	65,907	60,375	176,457,380	170,400,943	142,152,026	96,275,087	91,858,229	78,956,358
\$100,000 to \$1,000,000.....	2,159	1,976	1,593	189,953	185,743	156,171	652,610,455	595,294,165	451,011,747	310,251,830	280,112,984	215,350,376
\$1,000,000 and over.....	336	273	168	222,673	179,787	129,210	1,342,308,287	1,078,746,101	755,157,389	454,242,661	340,338,700	236,831,917
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	33.5	34.3	34.9	1.3	1.5	1.9	0.7	0.8	0.9	1.1	1.3	1.5
\$5,000 to \$20,000.....	32.1	32.3	32.1	4.9	5.9	7.0	2.7	3.1	3.5	4.0	4.8	5.3
\$20,000 to \$100,000.....	20.8	20.9	21.2	12.4	14.2	15.9	7.9	8.9	10.1	10.6	12.1	13.8
\$100,000 to \$1,000,000.....	11.7	11.0	10.7	37.5	39.9	41.2	29.0	31.0	32.0	34.2	36.9	37.3
\$1,000,000 and over.....	1.8	1.5	1.1	43.9	38.6	34.1	59.7	56.2	53.5	50.1	44.9	41.5

For 1914, 336 establishments, or 1.8 per cent of the total number in the state, each reported products exceeding \$1,000,000 in value, as compared with 273, or 1.5 per cent of the total, in 1909, and 168, or 1.1 per cent, in 1904. These establishments, in 1914, employed an average of 222,673 wage earners, or 43.9

per cent of the total for the state, and produced 59.7 per cent of the products as measured by value. In the same year the small establishments—those having products of less than \$5,000 in value—represented 33.5 per cent of the total number of establishments, but reported only seven-tenths of 1 per cent of the

total value of products. Establishments valuing their products at \$5,000 to \$20,000, \$20,000 to \$100,000, and \$100,000 to \$1,000,000 reported 2.7 per cent, 7.9 per cent, and 29 per cent, respectively, of the total value of products, a decreasing proportion for these groups at each successive census.

Table 20 gives, for 1914 and 1909, for 22 of the more important industries, a classification of establishments, wage earners, value of products, and value added by manufacture, similar to that presented in Table 19, for all industries combined.

Table 20 INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1914	1909	Per cent distribution.		1914	1909	Per cent distribution.		1914	1909	Per cent distribution.		1914	1909	Per cent distribution.	
			1914	1909			1914	1909			1914	1909			1914	1909
AGRICULTURAL IMPLEMENTS.....	73	79	100.0	100.0	19,556	19,240	100.0	100.0	\$65,337,663	\$57,268,325	100.0	100.0	\$32,460,102	\$32,444,218	100.0	100.0
Less than \$5,000.....	12	13	16.4	16.5	14	11	0.1	0.1	32,479	29,723	(1)	0.1	16,745	20,098	0.1	0.1
\$5,000 to \$20,000.....	12	13	16.4	16.5	52	68	0.3	0.3	130,069	127,751	0.2	0.2	57,733	78,945	0.2	0.2
\$20,000 to \$100,000.....	12	15	16.4	19.0	216	244	1.1	1.3	600,011	720,686	0.9	1.3	303,100	381,150	0.9	1.2
\$100,000 to \$1,000,000.....	22	26	30.1	32.9	3,028	3,118	15.5	16.2	8,841,960	8,579,951	13.5	15.0	4,472,330	4,262,583	13.8	13.1
\$1,000,000 and over.....	15	12	20.5	15.2	16,246	15,799	83.0	82.1	55,733,144	47,810,214	85.3	83.5	27,610,194	27,701,442	85.0	85.3
AUTOMOBILES, INCLUDING BODIES AND PARTS.....	91	65	100.0	100.0	2,545	2,382	100.0	100.0	11,018,162	7,153,818	100.0	100.0	4,729,729	3,174,699	100.0	100.0
Less than \$5,000.....	15	11	16.5	16.9	33	16	1.3	0.7	45,469	36,104	0.4	0.5	23,867	21,561	0.5	0.7
\$5,000 to \$20,000.....	18	21	19.8	32.3	73	91	2.9	3.8	177,512	249,040	1.6	3.5	115,847	143,187	2.5	4.5
\$20,000 to \$100,000.....	37	19	40.6	29.3	631	458	24.8	19.2	1,025,043	1,045,212	14.8	14.6	941,483	518,344	19.9	16.3
\$1,000,000 and over.....	21	14	23.1	21.5	1,808	1,817	71.0	76.3	9,170,138	5,822,862	83.2	81.4	3,648,532	2,491,607	77.1	78.5
BOOTS AND SHOES, INCLUDING CUT STOCK AND FINDINGS.....	57	53	100.0	100.0	6,397	5,792	100.0	100.0	18,407,348	16,754,704	100.0	100.0	6,266,336	5,885,862	100.0	100.0
Less than \$5,000.....	13	9	22.8	17.0	10	17	0.2	0.3	25,920	25,920	0.1	0.2	18,336	15,580	0.3	0.3
\$5,000 to \$20,000.....	10	7	17.5	13.2	73	63	1.1	1.1	106,391	80,328	0.6	0.5	59,901	49,762	1.0	0.8
\$20,000 to \$100,000.....	9	11	15.8	20.8	183	236	2.9	4.1	437,711	531,935	2.4	3.2	200,819	202,302	3.2	3.4
\$100,000 to \$1,000,000.....	20	19	35.1	35.8	2,817	2,192	44.0	37.8	7,949,795	5,470,633	43.2	32.7	2,628,064	1,697,074	41.9	28.8
\$1,000,000 and over.....	5	7	8.8	13.2	3,314	3,284	51.8	56.7	9,887,531	10,645,888	53.7	63.5	3,363,216	3,921,144	53.7	66.6
BRICK, TILE, POTTERY, AND OTHER CLAY PRODUCTS.....	235	379	100.0	100.0	8,610	9,731	100.0	100.0	14,221,869	14,379,779	100.0	100.0	10,262,930	10,761,975	100.0	100.0
Less than \$5,000.....	79	142	33.6	37.4	207	324	2.4	3.3	221,090	336,482	1.5	2.3	175,713	271,595	1.7	2.5
\$5,000 to \$20,000.....	65	145	27.6	38.3	487	1,196	5.7	12.3	607,282	1,372,370	4.3	8.6	458,353	1,076,533	4.5	10.0
\$20,000 to \$100,000.....	53	58	22.6	15.3	1,647	1,979	19.1	20.3	2,370,905	2,775,020	16.7	19.3	1,695,307	2,059,930	16.5	19.2
\$100,000 and over.....	38	34	16.2	9.0	6,269	6,232	72.8	64.1	11,022,582	9,895,307	77.5	68.8	7,933,557	7,353,917	77.3	68.3
BUTTER, CHEESE, AND CONDENSED MILK.....	267	295	100.0	100.0	1,755	1,732	100.0	100.0	21,792,220	17,798,278	100.0	100.0	3,556,588	3,581,357	100.0	100.0
Less than \$5,000.....	14	29	5.2	9.8	8	17	0.5	1.0	42,637	77,289	0.2	0.4	6,714	15,442	0.2	0.4
\$5,000 to \$20,000.....	97	140	36.3	47.5	91	142	5.2	8.2	1,081,026	1,519,150	5.0	8.5	130,539	269,319	3.7	7.6
\$20,000 to \$100,000.....	115	96	43.1	32.5	349	246	19.9	14.2	4,809,379	4,038,145	22.1	22.7	710,755	538,169	20.0	15.2
\$100,000 and over.....	41	30	15.4	10.2	1,307	1,327	74.5	76.6	15,859,178	12,163,694	72.8	68.3	2,708,580	2,708,427	76.2	76.7
CANNING AND PRESERVING.....	117	118	100.0	100.0	2,560	2,383	100.0	100.0	10,121,497	7,619,586	100.0	100.0	3,441,082	2,806,890	100.0	100.0
Less than \$5,000.....	26	24	22.2	20.3	36	68	1.4	2.9	55,616	60,061	0.5	0.8	30,624	30,884	0.9	1.1
\$5,000 to \$20,000.....	27	39	23.1	33.1	118	181	4.6	7.6	339,277	410,803	3.4	5.4	125,270	164,771	3.6	5.9
\$20,000 to \$100,000.....	34	32	29.1	27.1	522	547	20.4	23.0	1,675,909	1,447,243	16.6	19.0	567,566	547,790	16.5	19.5
\$100,000 to \$1,000,000.....	30	23	25.6	19.5	1,884	1,887	73.6	66.6	8,050,695	5,701,479	79.5	74.8	2,717,622	2,063,445	79.0	73.5
CARRIAGES AND WAGONS AND MATERIALS.....	296	325	100.0	100.0	4,861	5,852	100.0	100.0	15,192,466	16,831,233	100.0	100.0	6,824,089	7,351,948	100.0	100.0
Less than \$5,000.....	130	122	43.9	37.5	140	173	2.9	3.0	334,105	341,896	2.2	2.0	226,587	230,353	3.3	3.1
\$5,000 to \$20,000.....	106	128	35.8	39.4	461	649	9.5	11.1	1,014,192	1,242,315	6.7	7.4	661,199	780,090	9.7	10.6
\$20,000 to \$100,000.....	31	46	10.5	14.2	577	740	11.9	12.6	1,363,592	1,901,131	9.0	11.3	733,469	944,169	10.8	12.8
\$100,000 and over.....	29	29	9.8	8.9	3,683	4,290	75.8	73.3	12,480,577	13,345,941	82.1	79.3	5,202,834	5,397,336	76.2	73.4
CLOTHING, MEN'S, INCLUDING SHIRTS.....	604	715	100.0	100.0	35,119	36,152	100.0	100.0	89,144,448	89,472,755	100.0	100.0	47,833,982	44,244,475	100.0	100.0
Less than \$5,000.....	122	135	20.2	18.9	540	618	1.5	1.7	320,939	378,496	0.4	0.4	281,899	343,280	0.6	0.8
\$5,000 to \$20,000.....	218	297	36.1	41.5	3,360	4,724	9.6	13.1	2,320,536	3,210,703	2.6	3.6	2,030,513	2,928,566	4.2	6.6
\$20,000 to \$100,000.....	144	173	23.8	24.2	5,071	6,131	14.4	17.0	6,280,191	7,134,896	7.0	8.0	4,211,402	4,876,629	8.8	11.0
\$100,000 to \$1,000,000.....	101	91	16.7	12.7	8,100	7,426	23.1	20.5	31,976,090	30,185,453	35.9	33.7	16,371,520	14,379,391	34.2	32.5
\$1,000,000 and over.....	19	19	3.2	2.7	18,048	17,253	51.4	47.7	48,246,692	48,563,207	54.1	54.3	24,938,648	21,716,609	52.1	49.1
CLOTHING, WOMEN'S.....	241	221	100.0	100.0	8,113	6,151	100.0	100.0	20,750,550	16,635,236	100.0	100.0	9,531,354	7,421,710	100.0	100.0
Less than \$5,000.....	23	21	9.5	9.5	64	54	0.8	0.9	58,880	54,982	0.3	0.3	41,164	44,020	0.4	0.6
\$5,000 to \$20,000.....	50	64	20.7	29.0	403	616	5.0	10.0	559,729	740,280	2.7	4.4	341,712	508,541	3.6	6.9
\$20,000 to \$100,000.....	104	94	43.2	42.5	2,236	2,154	27.6	35.0	5,030,579	4,583,549	24.2	27.6	2,482,112	2,182,099	26.0	29.4
\$100,000 and over.....	64	42	26.6	19.0	5,410	3,327	66.6	54.1	15,101,362	11,256,425	72.8	67.7	6,666,366	4,687,050	70.0	63.2
CONFECTIONERY.....	147	140	100.0	100.0	5,009	3,799	100.0	100.0	22,138,559	12,798,077	100.0	100.0	10,043,926	5,132,679	100.0	100.0
Less than \$5,000.....	27	40	18.4	28.6	36	48	0.7	1.3	70,996	92,961	0.3	0.7	37,303	52,006	0.4	1.0
\$5,000 to \$20,000.....	55	47	37.4	33.6	235	198	4.7	5.2	596,633	509,871	2.7	4.0	306,482	277,744	3.1	5.4
\$20,000 to \$100,000.....	33	29	22.4	20.7	585	553	11.7	14.6	1,657,595	1,488,859	7.5	11.6	691,226	668,103	6.9	13.0
\$100,000 to \$1,000,000.....	29	21	19.7	15.0	2,564	1,972	51.2	51.9	9,752,747	6,392,435	44.1	49.9	3,842,148	2,566,127	38.3	50.0
\$1,000,000 and over.....	3	3	2.0	2.1	1,589	1,028	31.7	27.1	10,060,588	4,313,951	45.4	33.7	5,166,767	1,568,699	51.4	30.6
COPPER, TIN, AND SHEET-IRON PRODUCTS.....	508	483	100.0	100.0	7,445	7,473	100.0	100.0	24,815,389	22,822,810	100.0	100.0	10,990,536	9,629,647	100.0	100.0
Less than \$5,000.....	197	151	38.8	31.3	177	170	2.4	2.3	500,755	436,710	2.0	1.9	333,071	287,382	3.0	3.0
\$5,000 to \$20,000.....	199	205	39.2	42.4	716	849	9.6	11.4	1,880,368	2,147,922	7.6	9.4	1,175,032	1,321,954	10.7	13.7
\$20,000 to \$100,000.....	73	93	14.4	19.3	1,106	1,446	14.8	19.3	3,415,219	3,964,658	13.8	17.4	1,683,980	2,082,118	15.3	21.6
\$100,000 to \$1,000,000.....	33	31	6.5	6.4	2,433	3,259	32.7	43.6	8,157,818	10,078,576	32.9	44.2	3,525,348	4,284,133	32.1	44.5
\$1,000,000 and over.....	6	3	1.1	0.6	3,013	1,749	40.5	23.4	10,861,229	6,194,944	43.7	27.1	4,273,105	1,654,060	38.9	17.2

¹ Less than one-tenth of 1 per cent.

² Includes the group "\$1,000,000 and over."

MANUFACTURES—ILLINOIS.

Table 20—Continued.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	INDUSTRY AND VALUE OF PRODUCT.	1914	1909		1914	1909			1914	1909			1914	1909		
FLOUR-MILL AND GRIST-MILL PRODUCTS.....	406	461	100.0	100.0	2,398	2,464	100.0	100.0	\$49,493,224	\$51,110,681	100.0	100.0	\$6,652,317	\$5,521,110	100.0	100.0
Less than \$5,000.....	113	113	27.8	24.5	49	69	2.0	2.8	278,802	284,604	0.6	0.6	61,145	66,764	0.9	1.2
\$5,000 to \$20,000.....	104	117	25.6	25.4	132	172	5.5	7.0	1,117,454	1,285,941	2.3	2.5	232,458	301,997	3.5	5.5
\$20,000 to \$100,000.....	109	153	26.8	33.2	396	495	16.5	20.1	4,666,766	6,942,159	9.4	13.6	793,058	1,133,944	11.9	20.5
\$100,000 to \$1,000,000.....	69	68	17.0	14.8	1,123	1,133	46.8	46.0	19,680,440	22,355,864	39.8	43.7	2,571,777	2,571,742	38.7	46.6
\$1,000,000 and over.....	11	10	2.7	2.2	698	595	29.1	24.1	23,749,762	20,242,113	48.0	39.6	2,998,879	1,446,603	45.0	26.2
FOUNDRY AND MACHINE-SHOP PRODUCTS.....	1,371	1,178	100.0	100.0	55,261	52,266	100.0	100.0	141,328,624	138,578,993	100.0	100.0	80,722,363	74,768,805	100.0	100.0
Less than \$5,000.....	290	201	21.2	17.1	382	246	0.7	0.5	810,741	557,632	0.6	0.4	589,464	367,899	0.7	0.5
\$5,000 to \$20,000.....	394	329	28.7	27.9	1,817	1,587	3.3	3.0	4,296,186	3,554,851	3.0	2.6	2,811,616	2,245,264	3.5	3.0
\$20,000 to \$100,000.....	425	403	31.0	34.2	7,961	8,060	14.4	15.4	20,067,122	19,762,699	14.2	14.3	11,687,495	11,205,079	14.5	15.0
\$100,000 to \$1,000,000.....	238	222	17.4	18.8	26,579	26,403	48.1	50.5	71,875,373	69,525,659	50.9	50.2	39,976,795	37,442,726	49.5	50.1
\$1,000,000 and over.....	24	23	1.8	2.0	18,522	15,970	33.5	30.6	44,279,202	45,178,152	31.3	32.6	25,656,993	23,507,857	31.8	31.4
FURNITURE AND REFRIGERATORS.....	283	267	100.0	100.0	13,766	13,575	100.0	100.0	32,999,567	27,900,262	100.0	100.0	17,286,793	15,399,042	100.0	100.0
Less than \$5,000.....	34	32	12.0	12.0	51	33	0.4	0.2	92,345	80,625	0.3	0.3	61,018	52,729	0.4	0.3
\$5,000 to \$20,000.....	63	69	22.3	25.8	347	396	2.5	2.9	687,834	780,301	2.1	2.8	411,089	508,150	2.4	3.3
\$20,000 to \$100,000.....	95	85	33.6	31.8	2,170	2,364	15.8	17.4	4,994,635	4,248,913	15.1	15.2	2,749,712	2,432,744	15.9	15.8
\$100,000 to \$1,000,000.....	88	78	31.1	29.2	9,340	9,131	67.8	67.3	22,678,421	19,123,074	68.7	68.5	11,721,442	10,466,963	67.8	68.0
\$1,000,000 and over.....	3	3	1.1	1.1	1,858	1,651	13.5	12.2	4,546,332	3,667,349	13.8	13.1	2,343,532	1,988,456	13.5	12.6
LEATHER GOODS.....	304	168	100.0	100.0	2,325	2,949	100.0	100.0	7,982,276	8,948,324	100.0	100.0	3,444,488	3,813,354	100.0	100.0
Less than \$5,000.....	146	21	48.0	12.5	120	25	5.2	0.8	355,826	65,093	4.4	0.7	198,067	36,318	5.7	1.0
\$5,000 to \$20,000.....	94	74	30.9	44.0	303	294	13.0	10.0	916,017	801,757	11.5	9.0	479,616	409,548	13.9	10.7
\$20,000 to \$100,000.....	45	47	14.8	28.0	770	767	33.1	25.0	2,210,322	2,208,911	27.7	24.7	935,547	1,109,623	27.2	29.1
\$100,000 to \$1,000,000.....	19	26	6.3	15.5	1,132	1,863	48.7	63.2	4,500,111	5,872,563	56.4	65.6	1,831,258	2,257,865	53.2	59.2
LEATHER, TANNED, CURRIED, AND FINISHED.....	28	29	100.0	100.0	2,678	3,001	100.0	100.0	17,509,256	14,911,782	100.0	100.0	3,591,824	2,781,173	100.0	100.0
\$20,000 to \$100,000.....	9	9	32.1	31.0	97	78	3.6	2.6	459,862	395,526	2.6	2.7	116,712	100,932	3.2	3.6
\$100,000 to \$1,000,000.....	14	15	50.0	51.7	1,130	1,202	42.2	40.1	6,746,012	5,876,552	38.5	39.4	1,258,942	1,256,158	35.1	45.2
\$1,000,000 and over.....	5	5	17.9	17.2	1,451	1,721	54.2	57.3	10,303,382	8,639,704	58.9	57.9	2,216,170	1,424,083	61.7	51.2
LUMBER AND TIMBER PRODUCTS.....	618	814	100.0	100.0	14,870	16,567	100.0	100.0	42,064,008	44,951,804	100.0	100.0	17,939,874	17,687,608	100.0	100.0
Less than \$5,000.....	211	366	34.1	45.0	299	568	2.0	3.4	465,932	717,759	1.1	1.6	316,840	485,855	1.8	2.7
\$5,000 to \$20,000.....	153	180	24.8	22.1	804	1,012	5.4	6.1	1,663,448	1,898,762	4.0	4.2	987,002	1,112,506	5.5	6.0
\$20,000 to \$100,000.....	158	171	25.6	21.0	3,017	3,980	20.3	24.0	7,694,707	8,526,078	18.3	19.0	3,811,514	4,176,086	21.2	23.6
\$100,000 to \$1,000,000.....	90	91	14.6	11.2	7,559	9,197	50.8	55.5	23,438,733	23,734,818	55.7	52.8	9,388,550	9,666,200	52.3	54.6
\$1,000,000 and over.....	6	6	1.0	0.7	3,191	1,810	21.5	10.9	8,801,188	10,073,787	20.9	22.4	3,435,968	2,246,961	19.2	12.7
MILLINERY AND LACE GOODS.....	102	103	100.0	100.0	3,323	3,328	100.0	100.0	9,221,978	7,281,914	100.0	100.0	4,202,742	3,484,618	100.0	100.0
Less than \$5,000.....	11	11	10.8	10.7	27	25	0.8	0.8	32,253	21,840	0.4	0.3	20,080	12,040	0.5	0.3
\$5,000 to \$20,000.....	28	32	27.4	31.1	185	211	5.6	6.3	289,478	326,117	3.1	4.5	195,114	204,336	4.6	5.9
\$20,000 to \$100,000.....	42	42	41.2	40.8	870	1,026	26.2	30.8	1,865,646	1,991,063	20.2	27.3	919,668	1,096,275	21.9	31.5
\$100,000 to \$1,000,000.....	21	18	20.6	17.5	2,241	2,066	67.4	62.1	7,034,601	4,942,894	76.3	67.9	3,067,880	2,171,967	73.0	62.3
PAINTS AND VARNISHES.....	72	74	100.0	100.0	2,110	1,792	100.0	100.0	24,488,449	20,434,291	100.0	100.0	9,011,951	7,532,680	100.0	100.0
Less than \$5,000.....	4	7	5.6	9.5	4	6	0.2	0.3	8,392	18,999	(2)	0.1	4,034	9,770	(2)	0.1
\$5,000 to \$20,000.....	10	11	13.9	14.9	20	17	0.9	1.0	104,456	119,138	0.4	0.6	60,862	72,665	0.7	1.0
\$20,000 to \$100,000.....	22	20	30.5	27.0	88	110	4.2	6.1	1,060,298	1,019,334	4.3	5.0	358,468	384,322	4.0	5.1
\$100,000 to \$1,000,000.....	30	30	41.7	40.5	1,043	997	49.4	55.6	11,906,312	10,590,586	48.6	51.8	4,351,655	3,765,526	48.3	50.0
\$1,000,000 and over.....	6	6	8.3	8.1	955	662	45.3	37.0	11,408,991	8,686,234	46.6	42.5	4,236,932	3,300,397	47.0	43.8
PATENT MEDICINES AND COMPOUNDS AND DRUGGISTS' PREPARATIONS.....	363	359	100.0	100.0	1,844	1,869	100.0	100.0	15,031,507	13,114,307	100.0	100.0	9,934,728	8,701,289	100.0	100.0
Less than \$5,000.....	148	147	40.8	40.9	69	57	3.7	3.0	307,921	307,575	2.0	2.3	194,001	219,700	2.0	2.5
\$5,000 to \$20,000.....	109	119	30.0	33.1	247	228	13.4	12.2	1,114,517	1,127,216	7.4	8.6	686,971	778,186	6.9	8.9
\$20,000 to \$100,000.....	76	69	20.9	19.2	507	501	27.5	26.8	3,581,506	3,335,888	23.8	25.4	2,333,601	2,160,017	23.5	24.8
\$100,000 and over.....	30	24	8.3	6.7	1,021	1,083	55.4	57.9	10,027,563	8,348,628	66.7	63.6	6,720,155	5,543,886	67.6	63.7
PRINTING AND PUBLISHING.....	2,722	2,608	100.0	100.0	32,838	28,644	100.0	100.0	112,833,427	87,247,090	100.0	100.0	79,555,812	62,567,117	100.0	100.0
Less than \$5,000.....	1,113	1,148	40.9	44.0	1,258	1,433	3.8	5.0	2,838,811	2,944,486	2.5	3.4	2,254,453	2,363,626	2.8	3.8
\$5,000 to \$20,000.....	880	830	32.3	31.8	3,391	3,465	10.3	12.1	8,966,146	8,435,336	7.9	9.7	7,036,835	6,573,012	8.8	10.5
\$20,000 to \$100,000.....	541	479	19.9	18.4	7,502	7,085	22.8	24.7	24,821,122	20,580,593	22.0	23.6	19,014,184	15,438,063	23.9	24.7
\$100,000 to \$1,000,000.....	176	142	6.5	5.4	14,332	12,388	43.7	43.2	45,646,472	36,279,032	40.5	41.6	32,745,643	25,421,786	41.2	40.6
\$1,000,000 and over.....	12	9	0.4	0.3	6,355	4,273	19.4	14.9	30,560,876	19,007,643	27.1	21.8	18,504,697	12,770,630	23.3	20.4
SLAUGHTERING AND MEAT PACKING.....	98	109	100.0	100.0	31,627	26,705	100.0	100.0	489,230,324	389,594,906	100.0	100.0	77,215,741	45,618,899	100.0	100.0
Less than \$5,000.....	6	6	6.1	5.5	4	6	(2)	(2)	13,812	21,099	(2)	(2)	5,604	9,583	(2)	(2)
\$5,000 to \$20,000.....	12	13	12.2	11.9	25	31	0.1	0.1	132,515	146,451	(2)	(2)	47,513	44,381	0.1	0.1
\$20,000 to \$100,000.....	13	23	13.3	21.1	56	134	0.2	0.5	666,245	1,203,290	0.1	0.3	167,207	225,779	0.2	0.5
\$100,000 to \$1,000,000.....	35	43	35.7	39.4	1,066	1,249	3.2	4.7	14,402,040	15,448,649	2.9	4.0	2,269,061	2,411,898	2.9	5.3
\$1,000,000 and over.....	32	24	32.7	22.0	30,536	25,285	96.5	94.7	474,015,712	372,775,417	96.9	95.7	74,726,356	42,927,258	96.8	94.1

1 Includes the groups "less than \$5,000" and "\$5,000 to \$20,000."

2 Less than one-tenth of 1 per cent.

3 Includes the group "\$1,000,000 and over."

In a majority of the industries presented in Table 20 the small establishments—those reporting products valued at less than \$20,000—formed a decreasing proportion of the total in 1914 as compared with 1909, employed a relatively smaller number of wage earners, and show a decline in the proportion which the value of products formed of the total manufactures of the state. The manufacture of leather goods is the only industry in the table in which the small establishments show a pronounced increase in all the items. On the whole, the very large factories—those reporting products valued at \$1,000,000 and over—constituted greater proportions of their respective industry totals in 1914 than in 1909. Establishments of this size showed very substantial increases from 1909 to 1914 in all items given in the table in the following industries: Slaughtering and meat packing; printing and publishing; the flour-milling industry; the manufacture of paints and varnishes; canning and preserving; and copper, tin, and sheet-iron products. In most industries establishments having products valued at \$100,000 and over show proportional increases in average number of wage earners and value of products.

Table 21 presents, for 1914, for all industries combined in each of the 35 cities having more than 10,000 inhabitants, for which figures can be shown, statistics similar to those given in Table 19 for the state.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ALTON.....	76	2,662	100.0	\$12,864,532	100.0	\$4,260,174	100.0
Less than \$5,000.....	21	23	0.9	54,942	0.4	34,567	0.8
\$5,000 to \$20,000.....	32	164	6.2	334,546	2.6	219,096	5.1
\$20,000 to \$100,000.....	12	210	7.9	659,287	5.1	317,801	7.5
\$100,000 to \$1,000,000.....	7	622	23.4	1,739,085	13.5	669,461	15.7
\$1,000,000 and over.....	4	1,643	61.7	10,076,672	78.3	3,019,249	70.9
AURORA.....	140	4,777	100.0	10,789,383	100.0	5,529,916	100.0
Less than \$5,000.....	42	71	1.5	111,117	1.0	65,011	1.2
\$5,000 to \$20,000.....	46	213	4.5	469,389	4.4	285,761	5.2
\$20,000 to \$100,000.....	32	642	13.4	1,565,862	14.5	769,473	13.9
\$100,000 and over.....	20	3,861	80.6	8,643,016	80.1	4,409,671	79.7
BELLEVIEW.....	129	2,450	100.0	5,727,269	100.0	2,821,330	100.0
Less than \$5,000.....	60	94	3.8	158,068	2.8	95,430	3.4
\$5,000 to \$20,000.....	36	215	8.8	380,990	6.6	213,620	7.6
\$20,000 to \$100,000.....	17	374	15.3	610,781	10.7	369,622	13.1
\$100,000 to \$1,000,000.....	16	1,767	72.1	4,577,430	79.9	2,142,658	75.9
BLOOMINGTON.....	100	2,384	100.0	4,803,808	100.0	2,720,144	100.0
Less than \$5,000.....	35	41	1.7	99,570	2.1	69,463	2.5
\$5,000 to \$20,000.....	30	86	3.6	307,381	6.4	181,382	6.7
\$20,000 to \$100,000.....	25	335	14.1	1,218,550	25.4	594,628	21.9
\$100,000 and over.....	10	1,922	80.6	3,178,307	66.1	1,874,671	68.9
CAIRO.....	61	1,522	100.0	4,583,539	100.0	1,537,408	100.0
Less than \$5,000.....	7	11	0.7	18,280	0.4	11,448	0.7
\$5,000 to \$20,000.....	23	84	5.5	219,041	4.8	141,117	9.2
\$20,000 to \$100,000.....	18	280	18.4	767,800	16.7	363,696	23.7
\$100,000 to \$1,000,000.....	13	1,147	75.4	3,578,418	78.1	1,021,147	66.4
CENTRALIA.....	30	237	100.0	767,533	100.0	322,281	100.0
Less than \$5,000.....	8	8	3.4	14,883	1.9	9,941	3.1
\$5,000 to \$20,000.....	13	62	26.2	135,608	17.7	85,333	26.5
\$20,000 and over.....	9	167	70.5	617,042	80.4	227,007	70.4
CHAMPAIGN.....	59	382	100.0	1,244,696	100.0	611,575	100.0
Less than \$5,000.....	18	12	3.1	37,132	3.0	20,859	3.4
\$5,000 to \$20,000.....	25	94	24.6	227,734	18.3	131,286	21.5
\$20,000 to \$100,000.....	13	184	48.2	591,280	47.5	285,161	43.5
\$100,000 to \$1,000,000.....	3	92	24.1	383,550	31.2	193,269	31.6

¹ Includes the group "\$1,000,000 and over."

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCT.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
CHICAGO.....	10,115	313,710	100.0	\$1,483,498,416	100.0	\$581,565,022	100.0
Less than \$5,000.....	2,739	2,776	0.9	6,876,988	0.5	4,639,872	0.8
\$5,000 to \$20,000.....	3,369	15,201	4.8	35,184,617	2.4	22,367,985	3.8
\$20,000 to \$100,000.....	2,477	41,071	13.1	116,241,085	7.8	67,537,300	11.6
\$100,000 to \$1,000,000.....	1,317	108,189	34.5	387,218,841	26.1	194,611,057	33.5
\$1,000,000 and over.....	213	146,473	46.7	937,976,885	63.2	292,408,808	50.3
CHICAGO HEIGHTS.....	77	4,288	100.0	14,485,569	100.0	6,801,047	100.0
Less than \$5,000.....	17	14	0.3	41,910	0.3	24,011	0.4
\$5,000 to \$20,000.....	16	70	1.6	163,162	1.1	93,558	1.4
\$20,000 to \$100,000.....	13	246	5.7	601,489	4.2	289,810	4.3
\$100,000 to \$1,000,000.....	28	2,638	61.5	9,570,499	66.1	4,445,814	65.4
\$1,000,000 and over.....	3	1,320	30.8	4,105,509	28.3	1,947,854	28.6
DANVILLE.....	100	2,109	100.0	5,291,160	100.0	2,363,004	100.0
Less than \$5,000.....	35	40	1.9	84,208	1.6	51,017	2.2
\$5,000 to \$20,000.....	28	138	6.5	317,892	6.0	167,655	7.1
\$20,000 to \$100,000.....	25	366	17.4	942,057	17.8	272,364	11.5
\$100,000 and over.....	12	1,565	74.2	3,947,033	74.6	1,871,368	79.2
DECATUR.....	126	4,003	100.0	11,957,406	100.0	5,291,660	100.0
Less than \$5,000.....	36	48	1.2	91,326	0.8	63,204	1.2
\$5,000 to \$20,000.....	40	175	4.4	445,100	3.7	237,524	4.5
\$20,000 to \$100,000.....	26	536	13.4	1,328,522	11.1	718,810	13.6
\$100,000 and over.....	24	3,244	81.0	10,094,458	84.4	4,272,122	80.7
EAST ST. LOUIS.....	125	5,863	100.0	26,904,565	100.0	9,481,139	100.0
Less than \$5,000.....	20	14	0.2	46,510	0.2	24,694	0.3
\$5,000 to \$20,000.....	48	184	3.1	487,933	1.8	261,414	2.8
\$20,000 to \$100,000.....	25	371	6.3	1,064,520	3.9	537,506	5.7
\$100,000 to \$1,000,000.....	27	3,026	51.6	11,398,379	42.4	5,026,164	53.0
\$1,000,000 and over.....	5	2,268	38.7	13,917,223	51.7	3,631,361	38.3
ELGIN.....	91	5,529	100.0	10,491,829	100.0	6,220,931	100.0
Less than \$5,000.....	23	16	0.3	56,459	0.5	37,194	0.6
\$5,000 to \$20,000.....	26	114	2.1	258,656	2.5	168,368	2.7
\$20,000 to \$100,000.....	24	350	6.3	1,026,461	9.8	565,629	9.1
\$100,000 and over.....	18	5,049	91.3	9,150,256	87.2	5,451,740	87.6
FREEPORT.....	63	2,566	100.0	7,446,977	100.0	3,537,367	100.0
Less than \$5,000.....	10	15	0.6	25,676	0.3	16,322	0.5
\$5,000 to \$20,000.....	22	131	5.1	246,682	3.3	148,026	4.2
\$20,000 to \$100,000.....	16	235	9.2	754,185	10.2	390,463	11.0
\$100,000 and over.....	15	2,185	85.1	6,418,434	86.2	2,982,556	84.3
GALESBURG.....	60	1,362	100.0	3,192,129	100.0	1,677,499	100.0
Less than \$5,000.....	12	10	0.7	25,400	0.8	15,607	0.9
\$5,000 to \$20,000.....	16	74	5.4	177,993	5.6	105,661	6.3
\$20,000 to \$100,000.....	26	450	33.0	1,358,542	42.6	713,392	42.5
\$100,000 to \$1,000,000.....	6	828	60.8	1,629,194	51.0	842,839	50.2
GRANITE CITY.....	39	5,090	100.0	17,903,162	100.0	8,057,890	100.0
Less than \$5,000.....	15	18	0.4	41,249	0.2	26,081	0.3
\$5,000 to \$20,000.....	10	34	0.7	103,554	0.6	65,768	0.8
\$20,000 to \$100,000.....	4	71	1.4	206,132	1.2	106,448	1.3
\$100,000 to \$1,000,000.....	4	502	9.9	1,561,094	8.7	819,226	10.2
\$1,000,000 and over.....	6	4,465	87.7	15,991,103	89.3	7,039,472	87.4
JACKSONVILLE.....	63	932	100.0	2,355,192	100.0	994,948	100.0
Less than \$5,000.....	18	18	1.9	45,711	1.9	29,654	3.0
\$5,000 to \$20,000.....	25	110	11.8	255,619	10.9	146,042	14.7
\$20,000 to \$100,000.....	14	161	17.3	553,947	23.5	295,535	29.7
\$100,000 to \$1,000,000.....	6	643	69.0	1,499,915	63.7	523,717	52.6
JOLIET.....	136	4,999	100.0	30,091,415	100.0	10,054,916	100.0
Less than \$5,000.....	39	37	0.7	81,027	0.3	52,479	0.5
\$5,000 to \$20,000.....	53	219	4.4	558,177	1.9	329,144	3.3
\$20,000 to \$100,000.....	23	373	7.5	1,055,808	3.5	561,242	5.6
\$100,000 and over.....	21	4,370	87.4	28,396,403	94.4	9,112,051	90.6
KANKAKEE.....	53	1,430	100.0	3,193,020	100.0	1,489,211	100.0
Less than \$5,000.....	10	11	0.8	27,114	0.8	14,709	1.0
\$5,000 to \$20,000.....	20	100	7.0	222,727	7.0	114,809	7.7
\$20,000 to \$100,000.....	14	231	16.2	615,694	19.3	327,446	22.0
\$100,000 to \$1,000,000.....	9	1,088	76.1	2,327,485	72.9	1,032,247	69.3
KEWANEE.....	31	2,837	100.0	5,446,615	100.0	2,760,826	100.0
Less than \$5,000.....	7	7	0.2	14,843	0.3	7,418	0.3
\$5,000 to \$20,000.....	12	48	1.5	132,049	2.4	80,452	2.9
\$20,000 to \$100,000.....	8	102	3.6	435,217	8.0	236,320	8.6
\$100,000 and over.....	4	2,685	94.6	4,864,506	89.3	2,436,635	88.2
LINCOLN.....	40	239	100.0	560,637	100.0	276,944	100.0
Less than \$5,000.....	15	20	8.4	29,396	5.2	17,670	6.4
\$5,000 to \$20,000.....	18	91	38.1	187,547	33.5	102,240	38.9
\$20,000 and over.....	7	128	53.6	343,694	61.3	157,034	56.7
MATTOON.....	47	735	100.0	1,543,727	100.0	850,520	100.0
Less than \$5,000.....	18	16	2.2	40,734	2.6	25,519	3.0
\$5,000 to \$20,000.....	12	81	4.2	123,432	8.0	58,015	6.8
\$20,000 to \$100,000.....	13	184	25.0	650,241	42.1	294,088	34.6
\$100,000 to \$1,000,000.....	4	504	68.6	729,320	47.2	472,907	55.6

² Includes the group "\$100,000 to \$1,000,000."

Table 21—Con. CITY AND VALUE OF PRODUCT.		Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
MOLINE.....		108	5,053	100.0	\$19,925,106	100.0	\$9,537,768	100.0
Less than \$5,000.....		41	40	0.8	109,302	0.5	77,515	0.8
\$5,000 to \$20,000.....		30	87	1.7	279,501	1.4	179,921	1.9
\$20,000 to \$100,000.....		15	240	4.7	642,626	3.2	354,249	3.7
\$100,000 to \$1,000,000.....		17	1,784	35.3	5,701,638	28.9	2,877,724	30.2
\$1,000,000 and over.....		5	2,902	57.4	13,132,045	65.9	6,048,359	63.4
OAK PARK.....		47	268	100.0	1,555,082	100.0	1,062,626	100.0
Less than \$5,000.....		22	13	4.9	56,769	3.7	35,892	3.4
\$5,000 to \$20,000.....		14	47	17.5	132,824	8.5	78,066	7.3
\$20,000 to \$100,000.....		8	66	24.6	307,106	19.7	208,789	19.6
\$100,000 to \$1,000,000.....		3	142	53.0	1,058,384	68.1	739,879	69.6
PEKIN.....		44	634	100.0	9,609,500	100.0	5,637,347	100.0
Less than \$5,000.....		15	17	2.7	35,481	0.4	21,859	0.4
\$5,000 to \$20,000.....		19	95	15.0	223,179	2.3	118,523	2.1
\$20,000 to \$100,000.....		4	48	7.6	214,396	2.2	140,048	2.5
\$100,000 and over.....		6	474	74.8	9,136,444	95.1	5,356,317	95.0
PEORIA.....		283	6,285	100.0	64,689,045	100.0	43,400,170	100.0
Less than \$5,000.....		74	99	1.6	226,825	0.3	153,449	0.3
\$5,000 to \$20,000.....		91	393	6.3	985,047	1.5	601,682	1.4
\$20,000 to \$100,000.....		69	1,102	17.5	3,236,629	5.0	1,629,547	3.8
\$100,000 to \$1,000,000.....		39	3,018	48.0	12,142,200	18.8	5,205,778	12.0
\$1,000,000 and over.....		10	1,673	26.6	48,098,444	74.4	35,808,714	82.5
QUINCY.....		194	3,067	100.0	9,556,918	100.0	5,122,325	100.0
Less than \$5,000.....		63	54	1.8	139,603	1.5	88,132	1.7
\$5,000 to \$20,000.....		59	283	9.2	679,093	7.1	394,611	7.7
\$20,000 to \$100,000.....		46	908	29.6	2,337,837	25.0	1,167,365	22.8
\$100,000 to \$1,000,000.....		26	1,822	59.4	6,350,385	66.4	3,472,217	67.8
ROCK ISLAND.....		106	1,837	100.0	6,487,859	100.0	3,076,926	100.0
Less than \$5,000.....		40	40	2.2	86,458	1.3	63,921	2.1
\$5,000 to \$20,000.....		32	144	7.8	371,271	5.7	239,551	7.8
\$20,000 to \$100,000.....		25	350	19.1	1,081,270	16.7	633,698	20.6
\$100,000 and over.....		9	1,303	70.9	4,948,860	76.3	2,139,756	69.5
ROCKFORD.....		265	10,472	100.0	26,371,219	100.0	12,957,688	100.0
Less than \$5,000.....		56	46	0.4	133,134	0.5	89,059	0.7
\$5,000 to \$20,000.....		76	303	2.9	835,193	3.2	494,956	3.8
\$20,000 to \$100,000.....		72	1,522	14.5	3,609,328	13.7	1,963,260	15.2
\$100,000 to \$1,000,000.....		58	6,874	65.6	17,553,734	66.6	8,676,465	67.0
\$1,000,000 and over.....		3	1,727	16.5	4,239,830	16.1	1,733,948	13.4
SPRINGFIELD.....		189	4,157	100.0	11,769,969	100.0	5,888,288	100.0
Less than \$5,000.....		59	69	1.6	148,976	1.3	101,313	1.7
\$5,000 to \$20,000.....		72	344	8.3	866,566	7.4	506,584	8.6
\$20,000 to \$100,000.....		38	618	14.9	1,684,509	14.3	890,269	15.1
\$100,000 to \$1,000,000.....		17	1,696	40.8	5,149,926	43.7	2,738,180	46.5
\$1,000,000 and over.....		3	1,430	34.4	3,919,992	33.3	1,651,942	28.1
STREATOR.....		60	1,763	100.0	3,886,617	100.0	2,124,124	100.0
Less than \$5,000.....		19	34	1.9	53,685	1.4	33,941	1.6
\$5,000 to \$20,000.....		22	83	4.7	204,297	5.2	105,770	5.0
\$20,000 to \$100,000.....		13	280	14.7	524,444	13.5	253,336	11.9
\$100,000 and over.....		6	1,386	78.6	3,104,191	79.9	1,731,077	81.5
ALL OTHER CITIES ²		161	5,334	100.0	24,246,083	100.0	9,566,895	100.0
Less than \$5,000.....		53	47	0.9	145,308	0.6	90,880	0.9
\$5,000 to \$20,000.....		62	257	4.8	653,368	2.7	370,563	3.9
\$20,000 to \$100,000.....		30	450	8.4	1,148,101	4.7	727,856	7.6
\$100,000 to \$1,000,000.....		11	679	12.7	3,275,348	13.5	1,529,199	16.0
\$1,000,000 and over.....		5	3,901	73.1	19,023,958	78.5	6,848,397	71.6

¹ Includes the group "\$1,000,000 and over."

² All other cities embrace: Canton, Evanston, La Salle, and Waukegan. (Statistics for Cicero can not be shown without disclosure of individual operations.)

In the cities the same general condition prevails as that found throughout the state, namely, a preponderance of wage earners, value of products, and value added by manufacture for establishments having products valued at \$100,000 and over. The three highest percentages of the total value of products reported by establishments in this class, 98, 95.1, and 94.8, appear for Granite City, Pekin, and Moline, respectively. The lowest percentage, 31.2, is shown for Champaign.

Table 22 shows the size of establishments in 1914 as measured by the number of wage earners employed, for all industries combined, for 38 of the important industries, and for each of the 35 cities having more than 10,000 inhabitants, for which data can be given. Table 23 presents, for 1914, percentages based on the figures in Table 22, and for 1909, similar percentages for all industries combined and for individual industries.

Of the total number of establishments for all industries combined, 2,613, or 14.2 per cent, employed no wage earners in 1914. These are comparatively small plants in which the work was done by the proprietors or firm members. Some of these establishments employed a few wage earners for a short time, but the number was so small and the period of employment so short that in computing the average number, as described in the "Explanation of terms" no wage earners could be shown.

Nearly one-half of all establishments in the state employed from 1 to 5 wage earners only. The next largest group—those employing from 6 to 20 wage earners—constituted 18.8 per cent of the total. These small establishments, which together represent 68 per cent of the total, furnished employment to but 11.7 per cent of the wage earners engaged in manufactures in 1914, as compared with 12.9 per cent in 1909.

The groups of establishments having more than 100 wage earners, although only 5 per cent of the total, employed 67.3 per cent of the total wage earners. The percentage of the total wage earners reported by each of the groups of establishments employing more than 100 wage earners, with the exception of the groups comprising those employing from 101 to 250, and 251 to 500, increased from 1909 to 1914; and the percentage employed in these groups of establishments combined increased from 65.1 to 67.3 per cent during the five-year period.

The small establishments—those employing 1 to 5 wage earners—predominate in the following industries: The manufacture of bakery products, carriages and wagons and materials, copper, tin, and sheet-iron products, flour, leather goods, printing and publishing, and tobacco. Among the industries in which the very large establishments occur—those employing over 250 wage earners—the most important are the steam-railroad repair shops, the construction of cars for steam railroads, the manufacture of agricultural implements, men's clothing, electrical machinery, clocks and watches, the slaughtering and meat-packing industry, and the iron and steel rolling mills.

Among the cities, the highest percentages of the total number of wage earners reported by establishments employing more than 100 wage earners each are shown for Kewanee, 93.7 per cent; La Salle, 89; Granite City, 84.2; Moline, 84.1; Elgin, 79.6; and Joliet, 79.

Table 22

Table 22	ESTABLISHMENTS EMPLOYING—																			
	TOTAL.		No wage earners.	1 to 5 wage earners.	6 to 20 wage earners.	21 to 50 wage earners.	51 to 100 wage earners.	101 to 250 wage earners.	251 to 500 wage earners.	501 to 1,000 wage earners.	Over 1,000 wage earners.									
	Es- tab- lish- ments.	Wage earners (average number).	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.			
INDUSTRY AND CITY.																				
All industries	18,388	506,943	2,613	9,039	20,331	3,466	38,952	1,549	49,761	800	56,941	571	87,771	210	72,283	94	65,657	46	115,247	
Agricultural implements	73	19,556	1	23	54	7	95	7	217	8	587	10	1,640	8	2,836	6	3,965	3	10,162	
Automobiles, including bodies and parts	91	2,545	3	31	92	25	312	23	760	3	235	4	529	2	617					
Boots and shoes, including cut stock and findings	57	6,397	5	12	25	12	120	4	123	7	545	11	1,927	3	1,017	2	1,610	1	1,030	
Boxes, fancy and paper	80	4,586		10	35	24	329	27	873	9	745	5	719	4	1,361	1	524			
Bread and other bakery products	2,278	10,404	315	1,715	3,512	202	1,890	26	752	6	411	8	1,154	4	1,245	2	1,440			
Brick, tile, pottery, and other clay products	235	8,610	4	99	294	61	721	27	906	25	1,817	14	2,240	2	608	3	2,024			
Canning and preserving	117	2,560	6	51	142	23	262	20	641	13	964	4	551							
Carriages and wagons and materials	296	4,861	33	175	390	50	479	19	686	5	345	9	1,304	5	1,657					
Cars and general shop construction and repairs by steam-railroad companies	94	28,682		1	2	12	178	10	315	17	1,234	21	3,387	18	6,502	9	5,869	6	11,195	
Cars, steam-railroad, not including operations of railroad companies	23	18,000		1	5	1	9	5	162	4	310	1	180	5	2,023	2	1,603	4	13,708	
Clocks and watches, including cases and materials	15	5,688	2	4	9	3	46	2	75					1	473	1	939	2	4,146	
Clothing, men's, including shirts	604	35,119	21	113	311	226	2,837	141	4,456	58	4,035	23	3,929	10	3,624	8	5,514	4	10,413	
Clothing, women's	241	8,113	3	43	126	86	1,112	63	2,002	31	2,129	12	1,536	2	612	1	596			
Confectionery	147	5,009	12	58	138	33	380	22	652	8	590	10	1,400	2	600	2	1,249			
Copper, tin, and sheet-iron products	508	7,445	50	327	700	77	778	29	909	11	750	8	1,295	4	1,693	2	1,320			
Electrical machinery, apparatus, and supplies	142	16,483	5	46	122	39	491	23	693	12	802	12	1,716	2	740	1	612	2	11,307	
Flour-mill and gristmill products	406	2,398	69	249	503	57	627	23	678	8	590									
Foundry and machine-shop products	1,371	55,261	65	565	1,478	353	4,108	179	5,775	85	5,894	81	12,789	28	9,595	12	8,146	3	7,476	
Furnishing goods, men's	58	2,775	2	11	20	22	273	12	450	3	209	5	706	3	1,117					
Furniture and refrigerators	283	13,766	9	65	180	77	928	50	1,716	47	3,458	28	4,402	6	2,035			1	1,047	
Gas and electric fixtures and lamps and reflectors	76	2,078	8	25	75	21	227	9	300	6	378	7	1,098							
Gas, illuminating and heating	75	3,890	2	33	84	19	213	13	436	7	493			2	663	1	971	1	2,664	
Glass	10	3,764				1	17			1	53	4	662						1,398	
Hosiery and knit goods	46	3,535	4	11	34	8	91	7	212	4	274	8	1,207	3	1,005	1	712			
Iron and steel, steel works and rolling mills	25	15,408								3	242	7	1,002	7	2,225	3	2,266	5	9,673	
Leather goods	304	2,325	51	177	330	50	604	16	495	8	505	2	391							
Leather, tanned, curried, and finished	28	2,678	1	1	2	6	66	4	89	8	648	6	970	1	370	1	533			
Liquors, malt	89	5,749	2	4	15	26	366	24	786	21	1,549	8	1,132	3	1,113	1	788			
Lumber and timber products	618	14,870	21	304	651	164	1,981	62	2,092	35	2,523	23	3,220	5	1,641	4	2,762			
Millinery and lace goods	102	3,323		26	92	39	446	17	506	13	941	6	1,005	1	333					
Musical instruments, pianos and organs and materials	71	8,334	2	15	44	10	136	11	*399	11	805	12	1,895	8	2,932	1	729	1	1,394	
Paints and varnishes	72	2,110	4	30	80	17	179	8	312	6	462	6	743	1	334					
Printing and publishing	2,722	32,838	789	1,224	2,939	424	4,622	166	5,138	52	3,419	46	7,092	15	4,738	5	3,764	1	1,126	
Slaughtering and meat packing	98	31,627	5	26	73	13	160	19	631	12	813	8	1,191	5	1,699	1	800	9	26,260	
Smelting and refining, zinc	8	3,573								1	70	3	572	1	379	3	2,552			
Soap	27	2,144	3	10	26	5	57	2	76	1	65	3	366	1	448	2	1,106			
Stoves and furnaces, including gas and oil stoves	70	3,917	3	16	44	20	265	9	305	10	727	9	1,543	3	1,033					
Tobacco manufactures	1,622	7,653	557	832	1,719	188	1,794	28	815	10	715	4	599	1	336	2	1,675			
All other industries	5,206	98,869	556	2,706	5,985	1,065	11,753	442	14,328	231	16,609	143	21,679	44	14,679	17	11,688	2	2,248	
Total for cities 1	13,218	408,976	1,881	5,731	13,856	2,924	33,102	1,301	41,495	647	45,721	459	69,938	163	56,022	74	52,681	38	96,161	
ALTON	76	2,662	6	36	89	20	198	6	191	4	333	3	453					1	1,398	
AURORA	140	4,777	14	63	165	36	389	12	410	5	355	5	859	4	1,220			1	1,379	
BELLEVIEW	129	2,450	15	69	179	24	248	6	196	7	493	8	1,334							
BLOOMINGTON	100	2,384	16	52	120	18	203	8	231	3	203	2	258					1	1,369	
CAIRO	61	1,522	2	28	79	18	213	7	247	4	281	1	143			1	559			
CANTON	34	920	2	19	32	8	84	3	89	1	57					1	658			
CENTRALIA	30	237		21	54	8	67					1	116							
CHAMPAIGN	59	382	8	35	85	10	101	5	143	1	53									
CHICAGO	10,115	313,710	1,534	4,283	10,251	1,231	15,558	1,035	33,074	489	34,072	343	52,226	118	40,778	55	39,181	27	78,570	
CHICAGO HEIGHTS	77	4,288	6	24	50	15	159	9	356	10	745	10	1,658	2	736	1	584			
DANVILLE	100	2,109	8	53	122	23	231	9	259	4	264	1	154	1	376	1	703			
DECATUR	126	4,003	12	49	132	35	330	11	324	10	662	6	859	1	381	2	1,315			
EAST ST. LOUIS	125	5,863	12	50	131	34	400	12	389	5	393	7	1,122	2	806	2	1,590	1	1,032	
ELGIN	91	5,529	9	36	84	26	302	7	258	6	484	4	557	2	874			1	2,970	
EVANSTON	49	924	8	27	70	9	77	4	135							1	642			
FREEPORT	63	2,566		31	88	17	207	4	139	4	330	4	693	3	1,109					
GALESBURG	60	1,362	3	21	38	25	301	8	237	1	62	1	143			1	581			
GRANITE CITY	39	5,090	3	21	46	5	69	2	68			4	618	1	286	1	725	2	3,278	
JACKSONVILLE	63	932	6	33	85	16	157	3	74	3	260	2	356							
JOLIET	136	4,999	20	63	171	30	304	12	387	3	185	1	162	6	1,832			1	1,958	
KANKAKEE	53	1,430	3	23	66	16	171	3	111	5	365	1	124	2	593					
KEWANEE	31	2,837	2	18	39	5	63	3	75					1	332	1	738	1	1,590	
LA SALLE	30	1,214	3	18	45	6	66	1	23					1	258	1	822			

Table 23

Table 23		Cen- sus year.	PER CENT OF TOTAL AVERAGE NUMBER OF WAGE EARNERS IN ESTABLISHMENTS EMPLOYING SPECIFIED NUMBER.								Cen- sus year.	PER CENT OF TOTAL AVERAGE NUMBER OF WAGE EARNERS IN ESTABLISHMENTS EMPLOYING SPECIFIED NUMBER.								
INDUSTRY AND CITY.	1 to 5		6 to 20	21 to 50	51 to 100	101 to 250	251 to 500	501 to 1,000	Over 1,000	1 to 5		6 to 20	21 to 50	51 to 100	101 to 250	251 to 500	501 to 1,000	Over 1,000		
All industries.....	1914 1909	4.0 4.3	7.7 8.6	9.8 11.1	11.2 10.9	17.3 17.8	14.3 14.3	13.0 12.4	22.7 20.6		Liquors, malt.....	1914 1909	0.3 0.9	6.4 11.1	13.7 26.2	26.9 31.2	19.4 14.7	19.4 16.1	13.7	
Agricultural implements.....	1914 1909	0.3 0.2	0.5 1.0	1.1 0.9	3.0 3.2	8.4 9.8	14.5 11.0	20.3 15.9	52.0 58.0		Lumber and timber products...	1914 1909	4.4 5.5	13.3 12.0	14.1 15.0	17.0 17.9	21.7 20.8	11.0 21.0	18.6 7.8	
Automobiles, including bodies and parts.....	1914 1909	3.6 2.7	12.3 6.5	29.9 16.9	9.2 19.6	20.8 30.9	24.2 23.3	.....	.....		Millinery and lace goods.....	1914 1909	2.8 2.0	13.4 13.3	15.2 25.2	28.3 22.1	30.2 21.0	10.0 18.4	.....
Boots and shoes, including cut stock and findings.....	1914 1909	0.4 0.5	1.9 2.1	1.9 6.4	8.5 6.9	30.1 26.4	15.9 24.4	25.2 33.2	16.1		Musical instruments, pianos and organs and materials.....	1914 1909	0.5 0.3	1.6 2.5	4.8 5.4	9.7 4.8	22.7 22.5	35.2 29.6	8.7 17.5	
Boxes, fancy and paper.....	1914 1909	1.0 0.8	7.2 4.7	19.0 16.1	16.2 12.9	15.7 25.6	29.7 17.9	11.4 21.8	.....		Paints and varnishes.....	1914 1909	3.8 6.1	8.5 9.2	14.8 26.8	21.9 22.0	35.2 35.9	15.8 .....	.....
Bread and other bakery prod- ucts.....	1914 1909	33.8 35.7	18.2 20.6	7.2 5.0	4.0 2.5	11.1 18.1	12.0 10.6	13.8 7.6	.....		Printing and publishing.....	1914 1909	8.9 10.3	14.1 16.4	15.6 15.7	10.4 13.2	21.6 18.8	14.4 11.5	11.5 14.2
Brick, tile, pottery, and other clay products.....	1914 1909	3.4 5.8	8.4 12.2	10.5 12.3	21.1 14.8	26.0 28.8	7.1 3.1	23.5 12.4	10.6		Slaughtering and meat packing.	1914 1909	0.2 0.3	0.5 1.0	2.0 2.7	2.6 3.3	3.8 3.6	5.4 1.0	2.5 6.1	
Canning and preserving.....	1914 1909	5.5 5.9	10.2 13.5	25.0 27.9	37.7 29.8	21.5 23.0	.....	.....	.....		Smelting and refining, zinc.....	1914 1909	.....	.....	.....	2.0	16.0 14.7	10.6 18.0	71.4 67.3
Carriages and wagons and ma- terials.....	1914 1909	8.0 8.5	9.9 12.1	14.1 9.2	7.1 12.5	26.8 20.8	34.1 28.1	.....	8.9		Soap.....	1914 1909	1.2 1.9	2.7 1.9	3.5 7.5	3.0 2.6	17.1 14.7	20.9 12.2	51.6 59.1
Cars and general shop construc- tion, and repairs by steam- railroad companies.....	1914 1909	(1) 0.1	0.6 0.5	1.1 1.4	4.3 1.9	11.8 13.1	22.7 17.8	20.5 25.5	39.0 39.7		Stoves and furnaces, including gas and oil stoves.....	1914 1909	1.1 1.0	6.8 3.4	7.8 11.1	18.6 13.4	39.4 41.1	26.4 30.1	.....
Cars, steam-railroad, not in- cluding operations of railroad companies.....	1914 1909	(1) (1)	0.1 0.5	0.9 1.9	1.7 1.3	1.0 12.7	11.2 15.0	8.9 22.9	76.2 45.7		Tobacco manufactures.....	1914 1909	22.5 24.5	23.4 26.9	12.6 10.3	9.3 9.7	7.8 10.0	4.4	21.9 16.6	
Clocks and watches, including cases and materials.....	1914 1909	0.2 0.2	0.8 0.7	1.3 0.4	.....	3.7	8.3 7.0	16.5 24.9	72.9 60.5		All other industries.....	1914 1909	6.1 6.1	11.9 12.5	14.5 15.5	16.8 16.0	21.9 21.9	14.8 15.9	11.7 12.1
Clothing, men's, including shirts.....	1914 1909	0.9 1.0	8.1 10.1	12.7 16.1	11.5 11.2	11.2 8.8	10.3 11.6	15.7 11.7	29.7 29.5		Totals for cities 2.....	1914	3.4	8.1	10.1	11.2	17.1	13.7	12.9	
Clothing, women's.....	1914 1909	1.6 2.3	13.7 18.4	24.7 30.2	26.2 21.3	18.9 17.0	7.5 10.8	7.3 .....	.....		ALTON.....	1914	3.3	7.4	7.2	12.5	17.0	.....	52.5
Confectionery.....	1914 1909	2.8 4.2	7.6 9.0	13.0 14.0	11.8 11.6	27.9 31.5	12.0 29.7	24.9 .....	.....		AURORA.....	1914	3.5	8.1	8.6	7.4	18.0	25.5	28.9
Copper, tin, and sheet-iron products.....	1914 1909	9.4 9.3	10.4 16.2	12.2 10.0	10.1 10.4	17.4 20.6	22.7 19.7	17.7 13.7	.....		BELLEVIEW.....	1914	7.3	10.1	8.0	20.1	54.4	.....	57.4
Electrical machinery, apparat- us, and supplies.....	1914 1909	0.7 1.5	3.0 4.9	4.2 5.5	4.9 10.0	10.4 7.2	4.5 4.5	3.7 6.9	68.6 59.4		BLOOMINGTON.....	1914	5.0	8.5	9.7	8.5	10.8	.....	36.7
Flour-mill and gristmill prod- ucts.....	1914 1909	21.0 25.7	26.1 27.8	28.3 29.1	24.6 17.4	.....	.....	.....	.....		CAIRO.....	1914	5.2	14.0	16.2	18.5	9.4	.....	71.5
Foundry and machine-shop products.....	1914 1909	2.7 2.2	7.4 7.3	10.5 12.1	10.7 9.6	23.1 23.7	17.4 20.0	14.7 11.2	13.5 14.0		CANTON.....	1914	3.5	9.1	9.7	6.2	.....	.....	71.5
Furnishing goods, men's.....	1914 1909	0.7 1.4	9.8 7.5	16.2 16.0	7.5 13.6	25.4 35.1	40.3 26.3	.....	.....		CENTRALIA.....	1914	22.8	28.3	.....	48.9	.....	.....	.....
Furniture and refrigerators.....	1914 1909	1.3 1.3	6.7 5.4	12.5 13.8	25.1 21.8	32.0 31.5	14.8 12.3	7.6 13.9	.....		CHAMPAIGN.....	1914	22.3	26.4	37.4	13.9	.....	.....	.....
Gas and electric fixtures and lamps and reflectors.....	1914 1909	3.6 4.1	10.9 13.7	14.4 10.2	18.2 18.1	52.8 40.5	13.4 .....	.....	.....		CHICAGO.....	1914	3.3	8.1	10.5	10.9	16.6	13.0	12.5
Gas, illuminating and heating..	1914 1909	2.2 1.3	5.5 3.4	11.2 4.3	12.7 11.5	.....	8.5	68.5 70.9	.....		CHICAGO HEIGHTS.....	1914	1.2	3.7	8.3	17.3	38.7	17.2	13.6
Glass.....	1914 1909	.....	0.5 0.4	.....	1.4 0.7	17.6 5.0	17.6 14.0	25.8 20.2	37.1 41.6		DANVILLE.....	1914	5.8	11.0	12.3	12.5	7.3	17.8	33.3
Hosiery and knit goods.....	1914 1909	1.0 1.3	2.6 4.9	6.0 6.9	7.8 6.1	34.1 15.6	28.4 65.2	20.1 .....	.....		DECATUR.....	1914	3.3	8.2	8.1	16.5	21.5	9.5	32.9
Iron and steel, steel works and rolling mills.....	1914 1909	.....	.....	0.2	1.0	7.0	8.6	14.7 14.8	62.8 68.3		EAST ST. LOUIS.....	1914	2.2	6.8	6.6	6.7	19.1	13.7	27.1
Leather goods.....	1914 1909	14.2 8.5	26.0 17.4	21.3 26.1	21.7 18.6	16.8 20.1	9.3 .....	.....	.....		ELGIN.....	1914	1.5	5.5	4.7	8.8	10.1	15.8	53.7
Leather, tanned, curried, and finished.....	1914 1909	0.1 0.2	2.5 3.1	3.3 4.6	24.2 12.2	36.2 37.5	13.8 20.7	19.9 21.8	.....		EVANSTON.....	1914	7.6	8.3	14.6	.....	.....	69.5	.....
											FREEPORT.....	1914	3.4	8.1	5.4	12.9	27.0	43.2	.....
											GALESBURG.....	1914	2.8	22.1	17.4	4.6	10.5	.....	42.7
											GRANITE CITY.....	1914	0.9	0.9	1.3	12.1	5.6	14.2	64.4	
											JACKSONVILLE.....	1914	9.1	16.8	7.9	27.9	38.2	.....	39.2
											JOLIET.....	1914	3.4	6.1	7.7	3.7	3.2	36.6	.....
											KANKAKEE.....	1914	4.6	12.0	7.8	25.5	8.7	41.5	.....
											KEWANEE.....	1914	1.4	2.2	2.6	.....	11.7	26.0	56.0
											LA SALLE.....	1914	3.7	5.4	1.9	.....	21.3	67.7	.....
											LINCOLN.....	1914	28.5	36.8	34.7	.....	.....	.....	.....
											MATTOON.....	1914	6.8	14.7	13.7	13.5	51.3	.....	.....
											MOLINE.....	1914	2.2	2.6	4.9	6.3	21.4	24.7	16.3	
											OAK PARK.....	1914	19.8	7.1	53.0	20.1	.....	.....	21.7
											PEKIN.....	1914	7.6	17.8	10.9	23.2	40.5	.....	.....
											PEORIA.....	1914	5.5	12.2	13.1	16.7	34.9	9.2	8.5	
											QUINCY.....	1914	6.5	16.3	22.2	32.7	10.5	11.8	.....
											ROCK ISLAND.....	1914	6.0	15.8	7.8	16.0	14.5	39.8	.....
											ROCKFORD.....	1914	2.3	5.7	10.0	23.3	23.1	23.1	12.6	
											SPRINGFIELD.....	1914	6.4	9.9	10.6	9.5	14.4	26.6	22.6	
											STREATOR.....	1914	4.8	7.7	6.6	4.4	21.6	55.0	.....
											WAUKEGAN.....	1914	2.8	2.0	8.0	11.1	9.3	.....	66.8

1 Less than one-tenth of 1 per cent.

2 Statistics for Cicero can not be shown without disclosure of individual operations.

Engines and power.—Table 24 shows for 1914, 1909, and 1904, for all industries combined, the number and total horsepower of engines or motors employed in generating power (including electric motors operated by purchased current). It also shows separately the number and horsepower of electric motors operated by current generated in the establishments reporting.

There was an increase in primary power amounting to 292,859 horsepower, or 28.9 per cent, from 1909 to

1914, more than half of which was due to the increase in rented power. The use of rented power, now almost wholly electric, has greatly increased since 1904, when it represented only 7.2 per cent of the total primary power. In 1909 the amount of rented power had increased to 12.2 per cent of the

represented a decreasing proportion of the total primary power at each successive census. The increase in the use of electric motors run by current generated within the same establishments, although large, has not

kept pace with that in rented power. The power of motors operated by current generated in the same establishments decreased from 74.6 per cent of the total electric power in 1904 to 60 per cent in 1914.

Table 24

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
				Amount.			Per cent distribution.		
	1914	1909	1904	1914	1909	1904	1914	1909	1904
Primary power, total.....	51,484	30,546	7,888	1,305,930	1,013,071	741,555	100.0	100.0	100.0
Owned.....	8,003	8,700	7,888	1,021,759	889,348	688,036	78.2	87.8	92.8
Steam engines and turbines ¹	6,142	6,728	6,201	947,949	839,632	660,687	72.6	82.9	89.1
Internal-combustion engines.....	1,672	1,755	1,447	61,500	37,025	12,319	4.7	3.7	1.7
Water wheels, turbines, and motors.....	189	217	240	12,310	12,691	15,030	0.9	1.3	2.0
Rented.....	43,481	21,846	(²)	284,171	123,723	53,519	21.8	12.2	7.2
Electric.....	43,481	21,846	(²)	272,662	117,007	41,978	20.9	11.5	5.7
Other.....				11,509	6,716	11,541	0.9	0.7	1.6
Electric.....	72,094	39,278		681,474	398,621	165,265	100.0	100.0	100.0
Rented.....	43,481	21,846	(²)	272,662	117,007	41,978	40.0	29.4	25.4
Generated by establishments reporting.....	28,613	17,432	8,285	408,812	281,614	123,287	60.0	70.6	74.6

¹ Figures for horsepower include for 1909 and 1904 the amounts reported under the head of "other" owned power.

² Not reported.

The use of internal-combustion engines increased slightly during the decade. The horsepower of such engines, however, represented only 4.7 per cent of the total primary power in 1914.

During the decade 1904-1914 there was a gradual decrease in the horsepower of water wheels, turbines, and motors, which in 1904 formed 2 per cent and in 1914 nine-tenths of 1 per cent of the total primary power.

Fuel.—Closely related to the subject of power employed in manufactures is that of fuel consumed in generating the power or otherwise used in the manufacturing processes.

Table 25 shows, for 1914, the quantity of each kind of fuel used, for which data were obtained, for all industries combined and for certain industries in the state as a whole, and for all industries combined in each city.

Of the selected industries using anthracite coal for fuel, by far the larger proportion, 37.5 per cent of the total, was consumed in the smelting and refining of zinc. The industries consuming the largest proportions of bituminous coal were coke, 13.3 per cent, and iron and steel rolling mills, 11.5 per cent. Iron and steel blast furnaces consumed 72.2 per cent of the total amount of coke used as fuel.

Table 25

INDUSTRY AND CITY.	COAL.					INDUSTRY AND CITY.	COAL.				
	Anthracite (tons, 2,240 lbs.).	Bituminous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	Oil, including gasoline (barrels).	Gas (1,000 cubic feet).		Anthracite (tons, 2,240 lbs.).	Bituminous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	Oil, including gasoline (barrels).	Gas (1,000 cubic feet).
All industries.....	219,614	14,499,282	2,689,250	4,111,366	1,831,684	Iron and steel, blast furnaces.....		56,723	1,941,514		
Agricultural implements.....	536	289,849	46,500	131,241	5,049	Iron and steel, steel works and rolling mills.....	583	1,670,382	40,908	848,078	962
Baking powders and yeast.....	513	37,165		21	216	Iron and steel forgings, not made in steel works and rolling mills.....	123	40,278	834	27,693	444
Bread and other bakery products.....	20,523	51,938	28,701	3,180	66,668	Leather, tanned, curried, and finished.....		64,146		10	70
Brick, tile, pottery, and other clay products.....	10,107	1,088,653	1,408	158,945		Liquors, distilled.....		255,523	952	50	
Butter, cheese, and condensed milk.....	301	114,255	185	486	1,501	Liquors, malt.....	12,678	416,428		169	1,044
Carriages and wagons and materials.....	1,207	47,874	1,592	8,856	7,346	Lumber and timber products.....	1,640	53,258	388	1,350	2,670
Cars and general shop construction and repairs by steam-railroad companies.....	553	564,195	1,696	56,063	1,326	Malt.....	18,120	73,575	5,308	337	
Cars, steam-railroad, not including operations of railroad companies.....	2,815	149,472	10,608	138,369	10,661	Musical instruments, pianos and organs and materials.....	1,099	63,220	1,168	41	5,433
Cement.....		523,632	784	750		Paints and varnishes.....	35	72,456	4,212	5,126	2,418
Chemicals.....		254,457	7,072	322	70	Paper and wood pulp.....		307,517			
Coke, not including gas-house coke.....	1,931,340					Paving materials.....	340	57,151		16	612
Confectionery and ice cream.....	3,184	52,571	1,527	280	48,945	Petroleum, refining.....	890	290,899	3,630	259,939	419,966
Copper, tin, and sheet-iron products.....	2,200	59,934	1,395	18,189	47,037	Printing and publishing.....	5,686	72,908	333	1,375	108,935
Cordage and twine and jute and linen goods.....		55,219	8		331	Roofing materials.....		52,738	5	1,086	125
Electrical machinery, apparatus, and supplies.....	159	79,135	6,319	4,970	326,637	Slaughtering and meat packing.....	5,289	1,028,935	9,410	1,284	197,431
Flour-mill and gristmill products.....	6	206,412	558	1,726	233	Smelting and refining, zinc.....	82,436	697,047	23,055	104	
Food preparations.....	1,429	37,239	998	778	9,257	Soap.....	11	112,409	23	621	3,343
Foundry and machine-shop products.....	8,722	602,741	138,612	96,570	245,183	Wire.....	45	164,188	1,573		93
Furniture and refrigerators.....	2,264	108,948	1,794	491	21,743	All other industries.....	27,603	1,007,890	50,735	115,044	284,196
Gas, illuminating and heating.....	8,601	445,792	355,214	1,939,987	12,167	Total for cities ¹	137,167	9,459,529	2,683,183	3,388,586	1,053,120
Glass.....		397,550		286,976		ALTON.....	113	187,502	815	138,011	152
Glucose and starch.....		332,850		50		AURORA.....	969	61,479	3,084	4,408	5,137
Glue, not elsewhere specified.....	12	89,544		15	94	BELLEVIEW.....	2	49,069	4,084	133	1,540
Grease and tallow, not including lubricating greases.....		97,938		4		BLOOMINGTON.....	85	42,826	5,100	11,986	1,866
Ice, manufactured.....		322,908	215	178	90	CAIRO.....	3,060	21,810	119	336	261
						CANTON.....		27,711	6,000	6,000	341
						CENTRALIA.....		8,478	114	4	415
						CHAMPAIGN.....	142	10,974	1,654	5,108	1,470
						CHICAGO.....	94,122	5,273,778	1,976,396	2,026,970	870,692
						CHICAGO HEIGHTS.....	223	150,632	10,337	133,881	1,022

¹ Excluding Cicero.

Table 25—Continued.

Table 25—Continued.	COAL.		Coke (tons, 2,000 lbs.).	Oil, in- cluding gasoline (barrels).	Gas (1,000 cubic feet).	INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 lbs.).	Oil, in- cluding gasoline (barrels).	Gas (1,000 cubic feet).
	Anthra- cite (tons, 2,240 lbs.).	Bitumi- nous (tons, 2,000 lbs.).					Anthra- cite (tons, 2,240 lbs.).	Bitumi- nous (tons, 2,000 lbs.).			
DANVILLE.....	14	69,575	747	8,692	19	LINCOLN.....	20	4,709	320	14	677
DECATUR.....	194	99,585	4,415	17,117	5,920	MATTOON.....	15,997	318	18	762	
EAST ST. LOUIS.....	5,434	385,038	6,967	582,827	756	MOLINE.....	101	68,326	12,106	41,551	3,682
ELGIN.....	1,365	42,356	2,458	357	2,470	OAK PARK.....	90	11,571	16,826	96,243	307
EVANSTON.....	83	21,201	355	99	974	PEKIN.....	85,101	332	156	592	
FREESPORT.....	6,132	42,443	3,421	7,885	1,176	PEORIA.....	717	422,773	4,442	1,830	3,514
GALESBURG.....	26	41,997	3,028	3,339	1,581	QUINCY.....	165	60,941	4,332	1,408	2,958
GRANITE CITY.....	430	236,596	2,811	198,310	4,261	ROCK ISLAND.....	54	21,220	2,383	70	3,939
JACKSONVILLE.....	16	18,702	556	346	658	ROCKFORD.....	591	138,132	6,282	8,329	13,659
JOLIET.....	371	949,522	579,447	141	1,612	SPRINGFIELD.....	7,455	155,555	7,190	4,041	117,601
KANKAKEE.....	39,703	2,050	1	419	STREATOR.....	54	184,450	1,241	60,377	511	
KEWANEE.....	47,777	4,822	18,633	655	WAUKEGAN.....	67	232,802	1,675	9,965	198	
LA SALLE.....	15,072	229,108	6,956	1,323							

SPECIAL STATISTICS.

For certain industries the Census Bureau collects, by means of special schedules, details regarding the quantities and cost of materials, the quantities and values of products, and other information for securing which no provision is made on the general schedule. Certain data of this character for 11 important industries and for power laundries in Illinois are here presented.

Slaughtering and meat packing.—This classification includes wholesale slaughtering and meat-packing establishments only. The following table gives the quantity and cost of the principal materials and the quantity and value of the leading products reported for the censuses of 1914, 1909, and 1904.

Table 26	1914	1909	1904		1914	1909	1904
MATERIALS.				PRODUCTS—continued.			
Total cost.....	\$408,895,070	\$341,347,677	\$279,854,559	Sausage:			
Animals slaughtered:				Pounds.....	\$112,639,102	\$113,631,970	\$99,194,762
Beeves—				Value.....	\$16,030,339	\$11,654,787	\$7,753,799
Number.....	1,864,982	2,181,199	2,643,028	Lard:			
Cost.....	\$133,022,896	\$109,990,873	\$110,026,678	Pounds.....	335,695,330	403,177,806	456,577,415
Calves—				Value.....	\$36,870,104	\$40,592,051	\$31,463,099
Number.....	439,616	513,639	295,928	Lard compounds and substitutes:			
Cost.....	\$5,685,254	\$4,720,290	\$2,097,500	Pounds.....	95,574,742	(¹)	(¹)
Sheep and lambs—				Value.....	\$7,978,766	(²)	(³)
Number.....	4,882,940	3,892,142	3,634,216	Oleo oil:			
Cost.....	\$27,342,079	\$19,429,169	\$15,155,386	Gallons.....	6,156,607	7,938,568	9,143,055
Hogs—				Value.....	\$4,595,781	\$6,694,011	\$4,515,283
Number.....	7,205,510	7,293,544	7,854,370	Tallow and oleo stock:			
Cost.....	\$135,585,276	\$107,716,321	\$88,459,545	Pounds.....	48,889,548	44,319,760	(²)
All other animals, cost.....	\$1,211,796	(¹)	\$11,872	Value.....	\$3,349,702	\$2,719,969	(²)
Dressed meat purchased for curing, cost.....	\$60,686,459	\$35,679,430	\$18,977,058	Soap stock:			
All other materials, cost.....	\$45,361,310	\$63,811,594	\$46,126,520	Pounds.....	16,633,001	(²)	(²)
PRODUCTS.				Value.....	\$898,630	(²)	(²)
Total value.....	\$485,362,180	\$386,365,962	\$317,206,082	Stearin:			
Fresh meat:				Pounds.....	7,850,351	18,739,840	(²)
Beef—				Value.....	\$737,475	\$2,380,908	(²)
Pounds.....	1,000,942,830	1,142,920,916	1,376,889,532	Oleomargarine:			
Value.....	\$117,139,784	\$85,704,478	\$91,996,884	Pounds.....	40,498,679	30,793,365	(²)
Veal—				Value.....	\$5,975,688	\$4,413,578	(²)
Pounds.....	41,388,494	51,359,193	30,348,138	Sausage casings:			
Value.....	\$5,474,481	\$4,781,751	\$2,135,486	Pounds.....	31,421,770	(²)	(²)
Mutton and lamb—				Value.....	\$4,554,942	(²)	(²)
Pounds.....	197,647,411	157,615,125	160,511,123	Fertilizers and fertilizer materials:			
Value.....	\$23,094,431	\$15,051,397	\$12,453,289	Tons.....	91,163	102,638	191,540
Pork—				Value.....	\$2,692,831	\$2,614,087	\$3,741,050
Pounds.....	374,315,928	303,896,802	260,619,428	Glue and gelatin:			
Value.....	\$43,380,794	\$30,221,023	\$18,754,198	Pounds.....	419,623,781	10,806,271	412,463,446
Edible offal—				Value.....	\$41,704,326	\$909,182	\$785,658
Pounds.....	86,524,061	192,514,645	56,323,948	Hides and pelts:			
Value.....	\$5,357,602	\$11,146,711	\$5,346,938	Cattle—			
Poultry and all other fresh meat—				Number.....	1,864,982	2,408,757	2,766,594
Pounds.....	9,358,238	720,216,994	885,740,292	Pounds.....	107,513,830	135,617,679	165,007,637
Value.....	\$1,708,356	\$78,049,000	\$72,754,024	Value.....	\$19,235,802	\$19,372,440	\$16,664,648
Cured meat:				Calf—			
Beef, pickled and other cured—				Number.....	298,429	3,619,577	3,632,161
Pounds.....	32,738,293	53,965,719	78,334,416	Pounds.....	4,007,169	\$3,869,008	\$2,895,359
Value.....	\$5,361,447	\$4,676,501	\$4,931,741	Value.....	\$808,157		
Pork, pickled and other cured—				Sheep—			
Pounds.....	854,815,194	720,216,994	885,740,292	Number.....	4,880,057	3,619,577	3,632,161
Value.....	\$110,501,961	\$78,049,000	\$72,754,024	Value.....	\$3,927,174	\$3,869,008	\$2,895,359
Canned goods:				Wool:			
Beef—				Pounds.....	14,004,038	10,688,105	8,653,419
Pounds.....	101,160,342	78,155,327	\$6,108,692	Value.....	\$4,170,684	\$4,523,534	\$2,385,020
Value.....	\$16,260,696	\$9,677,618	(²)	All other products, value.....	\$41,725,059	\$47,313,928	\$27,700,862
Other—							
Pounds.....	11,886,958						
Value.....	\$1,827,168						

¹ Included in cost of "all other materials," to avoid disclosure.

² Not reported.

³ Not reported separately. Included under "all other products."

⁴ No gelatin reported.

From 1909 to 1914 the total cost of materials increased \$67,547,393, or 19.8 per cent, while the total

value of products increased \$98,996,218, or 25.6 per cent. There was a decrease of 316,217, or 14.5 per

cent, in the number of beeves slaughtered; 74,023, or 14.4 per cent, in the number of calves slaughtered; and 88,034, or 1.2 per cent, in the number of hogs dressed; although the cost of these animals increased as follows: Beeves, \$23,032,023, or 20.9 per cent; calves, \$964,964, or 20.4 per cent; and hogs, \$27,868,955, or 25.9 per cent. There was an increase in both number and cost of sheep and lambs slaughtered (25.5 per cent and 40.7 per cent, respectively), while the cost of dressed meat purchased for curing advanced 70.1 per cent.

During the census period 1909-1914 the output of fresh, salted, and cured beef decreased 163,205,512 pounds, or 13.6 per cent, but increased \$32,120,252, or 35.5 per cent, in value.

The quantity of dressed veal in 1914 was 9,970,699 pounds, or 19.4 per cent, less than in 1909, but the value of this product shows an increase of \$692,730, or 14.5 per cent. The output of mutton and lamb increased 40,032,286 pounds, or 25.4 per cent, and \$8,043,034, or 53.4 per cent, in value, while that of fresh, pickled, and cured pork increased 205,017,326 pounds, or 20 per cent, and \$45,612,732, or 42.1 per cent, in value.

In the production of canned goods there was an increase of 34,891,973 pounds, or 44.6 per cent, and in value an increase of \$3,410,246, or 86.8 per cent in 1914 as compared with 1909. Lard, which is one of the largest by-products of the slaughtering and meat-packing establishments, decreased 67,482,476 pounds, or 16.7 per cent, in quantity, and \$3,721,947, or 9.2 per cent, in value during this period.. This decrease is largely due to the increasing use of lard compounds and substitutes.

Printing and publishing.—Table 27 shows the number and aggregate circulation per issue of the different classes of newspapers and periodicals for the years 1914, 1909, and 1904.

Table 27 PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1914	1909	1904	1914	1909	1904
Total.....	1,657	1,682	1,753	25,101,616	20,823,166	16,542,740
Daily.....	184	194	192	2,620,661	2,323,913	1,954,329
Sunday.....	48	38	40	1,635,121	1,616,506	1,442,721
Semiweekly and tri-weekly.....	41	48	50	104,369	138,165	177,213
Weekly.....	967	1,018	1,089	6,216,667	5,008,590	4,592,043
Monthly.....	312	289	287	10,242,371	9,492,099	6,344,791
Quarterly.....	54	50	50	3,828,606	1,967,558	1,898,000
All other classes.....	51	45	36	453,821	276,335	133,643

Illinois ranks second in number and in circulation of all classes of publications combined; third in number and in circulation of dailies; second in number and third in circulation of Sunday papers; second in number and in circulation of weeklies; and second in number and in circulation of monthly publications.

While the gain in aggregate circulation from 1909 to 1914 was 4,278,450, or 20.5 per cent, the aggregate

number of publications decreased 25, or 1.5 per cent. The increase in the circulation of the dailies was 296,748, or 12.8 per cent; of the Sunday publications, 18,615, or 1.2 per cent; of the weeklies, 1,208,077, or 24.1 per cent; of the monthly publications, 750,272, or 7.9 per cent; and of the quarterlies, 1,861,048, or 94.6 per cent.

In number and circulation of publications printed in foreign languages, Illinois is outranked only by New York. Table 28 gives the number and circulation of such publications in 1914, 1909, and 1904, by periods of issue, compared with those published in the English language. Publications partly in English and partly in a foreign language are included with foreign.

Table 28 PERIOD OF ISSUE.	Census year.	TOTAL.		IN ENGLISH.		IN FOREIGN LANGUAGES.	
		Num-ber.	Aggregate circulation per issue.	Num-ber.	Aggregate circulation per issue.	Num-ber.	Aggregate circulation per issue.
Total.....	1914	1,657	25,101,616	1,476	23,120,799	181	1,980,817
	1909	1,682	20,823,166	1,509	19,365,799	173	1,457,367
	1904	1,753	16,542,740	1,604	15,358,385	149	1,184,355
Daily and Sunday....	1914	232	4,255,782	189	3,704,564	43	551,218
	1909	232	3,940,419	201	3,464,495	31	475,924
	1904	232	3,397,050	201	3,003,160	31	393,890
Semiweekly and tri-weekly.	1914	41	104,369	30	52,772	11	51,597
	1909	48	138,165	34	61,965	14	76,200
	1904	59	177,213	49	123,133	10	54,080
Weekly.....	1914	967	6,216,667	874	5,235,530	93	981,137
	1909	1,018	5,008,590	923	4,448,973	95	559,617
	1904	1,089	4,592,043	1,008	4,048,729	81	543,314
Monthly.....	1914	312	10,242,371	294	9,956,945	18	285,426
	1909	289	9,492,099	267	9,239,890	22	252,209
	1904	287	6,344,791	271	6,240,860	16	103,925
Quarterly.....	1914	54	3,828,606	46	3,800,056	8	28,550
	1909	50	1,967,558	44	1,885,266	6	82,292
	1904	50	1,898,000	47	1,850,800	3	47,200
All other.....	1914	51	453,821	43	370,932	8	82,889
	1909	45	276,335	40	265,210	5	11,125
	1904	36	133,643	28	91,697	8	41,946

There were 8 more publications in foreign languages in 1914 than in 1909 and the circulation of this class increased 523,450, or 35.9 per cent. The increase in number was limited to the dailies and Sundays and to "all other classes," but the gain in circulation extended to the dailies and Sundays and to the weekly, monthly, and "all other classes." Fifty-one publications were in the German language, and 7 in German-English; 32 in Swedish; 21 in Bohemian; 19 in Polish; and 9 in Yiddish. Other foreign language publications were: Italian, Lithuanian, Norwegian, and Danish-Norwegian each 5; Danish, Serbian, and Slovenian each 3; Bulgarian 2; English-Swedish 2; and French, Hungarian, Croatian, Dutch, Flemish, Greek, English-Norwegian, English-Spanish, and English-German-Bohemian-French-Spanish each 1.

Publications devoted to news, politics, and general reading—that is, newspapers, whether published daily, Sunday, weekly, semiweekly, or triweekly—numbered 1,094 in 1914, a decrease from 1,169 in 1909, but their circulation was reported to be 6,593,540, a gain of 700,113, or 11.9 per cent, over the circulation

in 1909. Those devoted to topics of religion numbered 153, compared with 123 in 1909, and their circulation increased 1,912,813, or 49.4 per cent. Publications devoted to agriculture, stock raising, etc., also showed a marked increase in circulation.

Iron and steel, blast furnaces and steel works and rolling mills.—A large proportion of the pig-iron product of the blast furnaces is used in cooperating steel works, hence there is considerable duplication in cost of materials and in value of products between the separately classified industries. Considered as a combined industry, the state ranks third among the states in number of wage earners employed and in value added by manufacture, being exceeded only by Pennsylvania and Ohio. The industrial depression of 1914 accounts for the decreases in many of the items of the following tables.

Blast furnaces.—The following table shows the quantity and value of pig iron produced in the census years 1914, 1909, and 1904.

Table 29	1914	1909	1904
Products, total value.....	\$25,861,528	\$38,299,897	\$27,330,836
Pig iron:			
Tons (2,240 pounds).....	1,843,333	2,468,772	1,660,610
Value.....	\$25,360,306	\$38,299,897	\$25,508,271
All other products.....	\$501,222		\$1,822,565
Pig iron, classified by grades, tons:			
Bessemer.....	1,024,181	1,805,718	1,424,030
Basic.....	503,871	352,381	52,658
All other, foundry, malleable, spiegeleisen, ferromanganese, direct castings, etc.....	315,281	310,673	183,922
Delivered in molten condition.....	1,227,933	1,731,870	660,972
Machine cast.....	600,629	444,179	782,646
Sand cast and all other.....	14,771	292,723	216,992

In 1914 a small amount of iron was made with mixed bituminous coal and coke, the balance being coke iron, whereas, in 1909 it was all coke iron. Of the total production in 1914, 1,453,860 tons, or 78.9 per cent was for consumption in the works of the producing company, and 389,473 tons, or 21.1 per cent, was for sale. In 1909, 87.2 per cent of the output was for consumption and 12.8 per cent was for sale.

The furnaces of the state run chiefly on Bessemer iron, although relatively there is shown a large decrease for this grade. Bessemer constituted 55.6 per cent of the total in 1914, as compared with 73.1 per cent in 1909, and 85.8 per cent in 1904. Basic iron, on the other hand, which constituted but 3.2 per cent of the total in 1904, formed 14.3 per cent in 1909, and 27.3 per cent in 1914. There were 17 active furnaces in 1914 of 7,351 tons daily capacity and 7 idle furnaces in active establishments of 2,903 tons daily capacity.

Steel works and rolling mills.—Table 30 shows the quantity and cost of the principal materials and the statistics for products reported by the steel works and rolling mills of the state for 1904 to 1914.

In addition to the scrap shown, the plants produced and charged back into the furnaces in 1914

over 350,000 tons of scrap. The steel production in 1914 aggregated 1,767,858 tons, comprising 1,664,335 tons of ingots and 103,523 tons of castings. Open-hearth steel constituted 50.3 per cent of the total in 1914, Bessemer steel, 49.1 per cent, and crucible steel and electric steel the remainder. In 1909 the corresponding proportions were open-hearth steel 38.3 per cent, Bessemer steel 61.2 per cent; and in 1904, Bessemer formed 76.8 per cent of the total.

Table 30	1914	1909	1904
MATERIALS.			
Total cost.....	\$39,938,064	\$56,244,463	\$38,649,762
Pig iron, including ferroalloys:			
Tons.....	1,637,922	2,433,805	1,446,299
Cost.....	\$24,026,163	\$36,686,448	\$19,282,069
Scrap, including old rails not intended for rerolling: ¹			
Tons.....	290,888	278,874	499,533
Cost.....	\$2,986,465	\$3,996,891	\$6,202,392
Ingots, blooms, billets, slabs, muck and scrap bar, and sheet and tin-plate bars:			
Tons.....	297,560	280,727	220,572
Cost.....	\$6,609,061	\$6,357,611	\$5,343,045
Fuel and rent of power.....	\$3,883,907	\$3,598,585	\$3,308,450
All other materials.....	\$2,432,468	\$5,604,928	\$4,513,806
PRODUCTS.			
Total value.....	\$64,995,121	\$86,608,137	\$60,021,925
Rolled, forged, and other classified products:			
Tons.....	1,901,330	2,644,191	1,657,885
Value.....	\$55,695,178	\$78,841,720	\$52,800,660
All other products, including value added to rolling-mill products by further manufacture.....	\$6,299,943	\$7,766,417	\$7,221,259

¹ Including scrap transferred to the establishment reporting from other works of the same company.

The leading rolled products in 1914, in order of tonnage, were wire rods; bars and rods, including spike, chain and bolt rods, horseshoe bars, etc., and rods for reinforced concrete; structural shapes; plates and sheets; and rails. In 1909 rails were in the lead and structural shapes third.

Agricultural implements.—Illinois is the leading state in the manufacture of agricultural implements, its output in 1914 representing about two-fifths of the value of the total production of the entire country. The following table shows the value of the different classes of agricultural implements manufactured in Illinois in the years 1914, 1909, and 1904.

Table 31	1914	1909	1904
Products, total value.....	\$65,337,663	\$57,268,325	\$38,412,452
Planters and seeders.....	3,654,223	1,412,234	2,998,075
Plows and cultivators.....	17,653,276	15,961,417	12,273,939
Harvesting implements.....	27,177,513	22,417,070	16,874,413
Seed separators.....	2,183,640	1,847,026	915,095
All other agricultural implements.....	7,560,021		
All other products.....	6,821,321	12,528,685	5,167,368
Amount received for repair work.....	287,669	371,893	183,662

¹ Figures do not agree with those published because one establishment revised its report.

The total value of agricultural implements manufactured in 1914 was \$65,337,663, as compared with \$57,268,325 in 1909, and \$38,412,452 in 1904, an increase of 14.1 per cent for the last five years, as compared with a gain of 49.1 per cent from 1904 to

1909. Harvesting implements, constituting 41.6 per cent of the total value of all implements in 1914, included mowers and reapers to the value of \$23,462,046, and hay rakes and tedders to the value of \$1,862,753. Plows and cultivators, representing 27 per cent of the total value of products reported for the industry in 1914, show an increase of 10.6 per cent over 1909 and of 43.8 per cent for the decade 1904-1914. The total value of products for each census includes a considerable amount of subsidiary products made by establishments which are engaged primarily in the manufacture of agricultural implements. In 1914 such products amounted to \$6,821,321, of which \$1,290,669 represented the value of wagons, \$1,322,003, the value of engines, and \$4,208,649, the value of other products.

Flour-mill and gristmill products.—Wheat flour was the chief product for this industry in 1914, forming 64.5 per cent of the total value. There were 253 mills in the state grinding wheat to some extent, and of this number, 12 each produced 100,000 barrels and over during the year 1914. The following table gives the quantity and value of products in detail for the year.

Table 32.	1914	1909	1904
Products, total value.....	\$49,493,224	\$51,110,681	\$39,892,127
Wheat flour:			
Barrels.....	6,643,983	6,386,547	5,954,680
Value.....	\$31,904,077	\$33,992,494	\$27,619,401
Rye flour:			
Barrels.....	146,432	116,925	77,309
Value.....	\$635,985	\$539,732	\$279,992
Buckwheat flour:			
Pounds.....	736,805	1,802,680	2,055,372
Value.....	\$24,237	\$54,842	\$62,210
Barley meal:			
Pounds.....		110,400	1,272,000
Value.....		\$1,560	\$20,220
Corn meal and corn flour:			
Barrels.....	600,515	738,864	1,068,286
Value.....	\$1,942,702	\$2,168,824	\$2,319,104
Hominy and grits:			
Pounds.....	154,209,222	221,177,853	239,728,156
Value.....	\$2,293,850	\$3,224,171	\$2,551,006
Bran and middlings:			
Tons.....	270,754		
Value.....	\$6,184,864	475,852	406,411
Feed and offal:			
Tons.....	242,201	\$10,766,280	\$6,981,550
Value.....	\$5,993,094		
All other cereal products, value.....	\$157,097	\$268,946	.....
All other products, value.....	\$357,312	\$93,832	\$58,554

Illinois was fourth among the states in the quantity and value of products reported for the flour-mill and gristmill industry in 1914. The decrease in the total value of products from 1909 to 1914 is 3.2 per cent, but an increase of 24.1 per cent is shown for the last decade. Wheat flour increased in production from 1909 to 1914, 257,436 barrels, or 4 per cent, but in value a decrease of 6.1 per cent is shown. Rye flour increased in value 17.8 per cent, and bran and middlings, including feed and offal, 13.1 per cent. Corn meal and corn flour decreased in value 10.4 per cent, and hominy and grits, 28.9 per cent.

The equipment of the mills in the state in 1914 was 2,056 stands of rolls, 196 runs of stone, and 290 attrition mills. Fifty-one establishments made their own barrels.

Soap.—The quantity and cost of the principal materials used and the quantity and value of products reported for the last three census years by establishments in the classified industry are shown in the following table:

Table 33	1914	1909	1904
MATERIALS. ¹			
Total cost.....	\$15,252,893	\$13,948,160	\$9,345,061
Tallow, grease, and other fats:			
Pounds.....	77,759,488	54,546,522	79,134,570
Cost.....	\$4,736,142	\$3,225,011	\$3,573,202
Coconut and palm-kernel oil:			
Gallons.....	2,550,332	2,174,700	1,043,976
Cost.....	\$1,903,059	\$1,084,613	\$438,644
Cottonseed oil:			
Gallons.....	1,927,981	1,565,800	8,356,680
Cost.....	\$917,258	\$576,624	\$2,515,047
Rosin:			
Pounds.....	16,272,793	18,272,898	18,667,593
Cost.....	\$419,697	\$423,829	\$303,456
Foots:			
Pounds.....	21,169,801	21,403,551	13,367,007
Cost.....	\$292,520	\$511,907	\$256,068
Caustic soda:			
Tons (2,000 pounds).....	9,719	8,022	10,186
Cost.....	\$304,430	\$335,312	\$364,256
Soda ash:			
Tons (2,000 pounds).....	14,984	15,640	9,715
Cost.....	\$216,954	\$288,647	\$148,109
All other materials, cost.....	\$6,462,833	\$7,502,217	\$1,746,279
PRODUCTS.			
Total value.....	\$24,919,259	\$20,212,509	.....
The soap industry.....	\$21,420,035	\$20,180,799	\$14,156,708
Subsidiary soap products from other industries.....	\$3,499,224	\$31,710	(²)
Hard soaps:			
Quantity, pounds.....	337,880,000	254,017,000	197,983,351
Tallow.....	134,026,000	158,717,000	(²)
Olefin.....	2,763,000	2,070,000	(²)
Feet.....	6,934,000	4,050,000	(²)
Toilet.....	46,514,000	32,888,000	(²)
Powdered.....	71,702,000	56,009,000	(²)
Soap chips.....	27,972,000	283,000	(²)
All other.....	47,975,000		(²)
Value.....	\$17,904,726	\$13,066,420	\$8,671,921
Soft soap:			
Pounds.....	8,329,000	10,292,000	567,153
Value.....	\$205,759	\$216,031	\$39,433
Special soap articles.....	\$111,782	\$36,002	(²)
Glycerin:			
Crude.....			
Pounds.....	1,197,850		
Value.....	\$217,737		
Refined.....			
Pounds.....	5,242,896	6,768,939	3,721,609
Value.....	\$1,124,704	\$876,871	\$379,863
Perfumes and toilet preparations, value.....	\$522,630		
All other products, value.....	\$4,831,921	\$6,017,185	\$5,065,491

¹ Not including those consumed in soap manufacture in establishments making subsidiary soap products.

² Figures not available.

The total production of soap in 1914, made by establishments manufacturing soap as a chief product, was valued at \$24,919,259, as compared with \$20,212,509 in 1909, an increase of \$4,706,750, or 23.3 per cent. The large increase in subsidiary production in 1914, as compared with 1909, is due to variance in method of reporting the soap departments of some concerns, they being reported as separate establishments at one census and in conjunction with other manufacturing operations at the other census.

The quantity of hard soaps manufactured was nearly 84,000,000 pounds, or 33 per cent greater in 1914 than in 1909, and the value increased \$4,838,306, or 37 per cent, in the five-year period. Soft soap shows a decrease of 19.1 per cent in quantity and 4.8 per cent in value.

The statistics in regard to materials consumed are confined to those reported by establishments that made soap as a chief product. Approximately 20 per cent of the hard soap and 32 per cent of the soft soap, in 1914, was produced by establishments in other lines of manufacture that made soap as a subsidiary product and did not report the materials consumed.

Musical instruments, pianos and organs and materials.—The number and value of the different kinds of pianos and organs manufactured in 1914, 1909, and 1904 are shown in the following table.

Table 34	1914	1909	1904
Products, total value.....	\$19,705,601	\$19,176,328	\$13,323,358
Pianos:			
Number.....	93,626	108,283	74,137
Value.....	\$14,562,820	\$14,783,394	\$9,696,142
Upright—			
Without player attachment—			
Number.....	74,023	103,433	73,874
Value.....	\$9,588,328	\$13,226,811	\$9,605,681
For or with player attachment—			
Number.....	18,870	4,470	25
Value.....	\$4,688,789	\$1,419,660	\$8,750
Grand—			
Without player attachment—			
Number.....	733	380	238
Value.....	\$285,703	\$136,923	\$81,711
Organs:			
Number.....	13,095	28,798	55,759
Value.....	\$1,448,429	\$1,281,415	\$1,969,543
Pipe—			
Number.....	589	154	140
Value.....	\$908,386	\$307,632	\$230,323
Reed—			
Number.....	12,506	28,644	55,619
Value.....	\$540,043	\$973,783	\$1,739,220
Parts, materials, and supplies, value.....	\$2,909,667	\$2,820,575	\$1,085,998
All other products, value.....	\$784,685	\$290,944	\$571,675

The combined industry shows a substantial gain during the decade 1904-1914 but an increase of only 2.8 per cent from 1909 to 1914. While the production of upright pianos without player attachments decreased from 103,433 instruments, valued at \$13,226,811, in 1909 to 74,023 instruments, valued at \$9,588,328, in 1914, the loss is partly offset by the marked increase in both number and value of upright pianos with player attachments. In 1904 but 25 pianos of this type, valued at \$8,750, were reported, whereas in 1909 there were 4,470, valued at \$1,419,660, and by 1914 the number had increased to 18,870, valued at \$4,688,789. Grand pianos without player attachments also show a considerable increase, the number and value of this class more than doubled during the five years 1909 to 1914. Included with the 733 grand pianos reported for 1914 are a few with player attachment, for which separate statistics can not be shown without disclosing the operations of individual establishments. A small number of automatic pianos are also included with the classes shown for a similar reason. Although there were less than half as many organs manufactured in 1914 as in 1909 their value advanced 13 per cent during that interval. The increase in value is traceable to the more extended manufacture in recent years of the high-priced pipe organs. For this class of instruments there were reported in 1909 but 154, valued at \$307,632, while in 1914 there were manufac-

tured 589, valued at \$908,386. Included with this class of organs are some few orchestrions, data for which are omitted in order to avoid disclosure of individual operations. For similar reasons the value of the perforated music rolls are included in "all other products."

Butter, cheese, and condensed milk.—The following table gives in detail the quantity and value of the products of the industry for 1914, 1909, and 1904.

Table 35	1914	1909	1904
Products, total value.....	\$21,792,220	\$17,798,278	\$13,276,533
Butter:			
Pounds.....	27,332,293	24,570,976	27,319,925
Value.....	\$7,962,297	\$7,088,414	\$5,750,312
Packed solid—			
Pounds.....	15,404,541	14,767,503	20,466,655
Value.....	\$4,509,095	\$4,215,191	\$4,290,377
Prints or rolls—			
Pounds.....	11,927,752	9,803,473	6,873,270
Value.....	\$3,453,202	\$2,873,223	\$1,459,335
Cream sold:			
Pounds.....	11,966,350	11,496,133	2,192,048
Value.....	\$1,073,690	\$1,274,796	\$173,671
Cheese:			
Pounds.....	6,400,532	4,799,235	5,301,211
Value.....	\$712,842	\$520,486	\$426,026
Full-cream—			
Pounds.....	4,090,100	2,919,897	
Value.....	\$590,024	\$398,397	
Part-cream—			
Pounds.....	283,173	561,028	5,301,211
Value.....	\$20,435	\$58,005	\$426,026
Skimmed and other kinds—			
Pounds.....	2,027,259	1,318,310	
Value.....	\$102,383	\$64,084	
Condensed milk:			
Pounds.....	167,425,094	114,500,748	93,425,052
Value.....	\$11,256,447	\$8,437,627	\$6,674,734
Sweetened—			
Pounds.....	58,857,984	48,240,252	47,511,291
Value.....	\$4,937,077	\$4,468,085	\$3,416,927
Unsweetened—			
Pounds.....	51,823,055		
Value.....	\$3,052,538		
Evaporated—			
Pounds.....	56,744,055	66,260,496	45,913,761
Value.....	\$3,266,832	\$3,969,542	\$3,257,807
All other butter, cheese, and condensed milk factory products, value.....	\$690,162	\$308,754	\$233,729
All other products, value.....	\$66,782	\$76,201	\$12,661

Of the total value of products reported for the industry in 1914, butter constituted 36.5 per cent, cheese 3.3 per cent, and condensed milk 51.7 per cent. The manufacture of casein, powdered milk, and sugar of milk has also assumed some importance in the state during the past few years, but figures for these products can not be shown separately without disclosure of individual operations.

The industry as a whole shows an increase of \$8,515,687, or 64.1 per cent, in value of products during the decade 1904 to 1914. The increase in the value of butter manufactured was 38.5 per cent; that of cheese, 67.1 per cent; and that of condensed and evaporated milk, 68.6 per cent. It will, therefore, be seen that the increased activity in the manufacture of condensed milk accounts very largely for the increase in the total value of products for the industry. Illinois has long been one of the leading states in the condensed-milk industry, having been second only to New York for a number of years. In 1914, however, the state ranked first in the manufacture of this product. The progress of the industry during the 10 years covered by the table represents a steady growth

from census to census. There were 34 condensed-milk factories in the state in 1914, as compared with 27 in 1909, and 15 in 1904. During the five-year period 1904-1909 the value of products advanced 26.4 per cent, and from 1909 to 1914 increased 33.4 per cent. While the manufacture of sweetened condensed milk shows an increase of 23.9 per cent in quantity and 44.5 per cent in value during the decade, the greatest advance has been in the manufacture of unsweetened and evaporated milk, which shows a gain of 136.5 per cent in quantity and 94 per cent in value.

The quantity of butter manufactured shows a decrease of 10.1 per cent during the five-year period 1904-1909 but a gain of 11.2 per cent from 1909 to 1914, so that for the decade there was a slight increase. Butter "packed solid"—that is, put up in firkins or tubs—shows a decrease of 5,062,114 pounds, or 24.7 per cent, for the decade, whereas that put up in "prints or rolls" shows an increase of 5,054,482 pounds, or 73.6 per cent.

The manufacture of cheese decreased 501,976 pounds from 1904 to 1909 but increased from 1909 to 1914 by 33.4 per cent. The progress of the industry during the decade 1904-1914 is represented by an increase of 27.4 per cent in pounds and of 67.1 per cent in value.

Boots and shoes.—The following table shows the number of pairs of the various kinds of footwear manufactured in Illinois in 1914, 1909, and 1904.

KIND.	NUMBER OF PAIRS.		
	1914	1909	1904
Total number of pairs.....	8,292,650	8,295,805	6,143,462
Boots and shoes.....	7,370,553	6,893,731	5,736,107
Men's.....	3,934,629	4,018,016	3,463,185
Boys' and youths'.....	1,058,230	1,270,520	601,165
Women's.....	1,625,866	1,034,470	887,707
Misses and children's.....	751,819	570,725	694,140
Slippers.....	246,835	274,697	261,265
Men's, boys', and youths'.....	49,140	112,900	43,090
Women's, misses, and children's.....	197,695	161,797	218,166
Infants' shoes and slippers.....	545,169	1,002,277	(¹)
All other footwear.....	130,102	125,100	146,000

¹ Not reported separately.

The manufacture of footwear in Illinois shows a slight decrease since 1909, but there was a substantial gain in the industry during the decade 1904-1914.

The decrease in the production of men's and boys' boots and shoes was more than offset by the increased production of women's, misses', and children's shoes, so that the total number of pairs of boots and shoes made in 1914 was 6.9 per cent more than in 1909.

The manufacture of slippers decreased 10.1 per cent from 1909 to 1914 and 5.5 per cent from 1904 to 1914. The decline in the output was confined to slippers made for men and boys and youths, since those made for women and misses and children increased 22.2 per cent during the period 1909 to 1914. The number of infants' shoes and slippers decreased

from 1,002,277 pairs in 1909 to 545,169 pairs in 1914, or by 45.6 per cent.

The following table classifies the various kinds of footwear made in Illinois, by method of manufacture.

KIND.	Cen- sus year.	NUMBER OF PAIRS, BY METHOD OF MANUFACTURE.			
		Total.	Welted.	McKay.	Turned and wood or metal fas- tened.
Boots and shoes.....	1914 1909	7,370,553 6,893,731	3,715,554 3,310,544	3,454,942 3,174,420	200,057 408,767
Men's.....	1914 1909	3,934,629 4,018,016	3,212,273 3,127,767	540,674 630,755	181,682 259,494
Boys' and youths'.....	1914 1909	1,058,230 1,270,520	15,710 (¹)	1,042,529 1,170,688	..... 99,832
Women's, misses', and children's.....	1914 1909	2,377,685 1,605,195	487,571 182,777	1,871,739 1,372,977	18,375 49,441
Slippers, all kinds.....	1914 1909	246,835 274,697	36,446 45,540	200,429 211,722	9,960 17,435
Infants' shoes and slippers...	1914 1909	545,169 1,002,277	236,292 448,338	(¹)	308,877 553,939
All other footwear.....	1914 1909	130,102 125,100	(¹) (¹)	125,102 (¹)	5,000 125,100

¹ Included in "turned and wood or metal fastened."

Of the total output of boots and shoes in 1914, a slightly increased proportion, 50.4 per cent, as compared with 48 per cent in 1909, were welted. The McKay type represented practically the same proportion at the two censuses, 46.8 per cent and 46 per cent, respectively. In the manufacture of men's shoes, the leading class of footwear in Illinois, the welted process was employed in 81.6 per cent of the production, as compared with 77.8 per cent in 1909. The majority of boys' and women's and children's shoes were McKay sewed. Slippers of all kinds also were chiefly made by the McKay method; infants' footwear was divided between the welted and turned types, 43.3 per cent being welted and 56.7 per cent turned. The "all other footwear" was practically all McKay.

Leather, tanned, curried, and finished.—Table 38 gives the quantity and cost of the principal materials used and the quantity and value of the various products for 1914, 1909, and 1904.

The total cost of materials used in 1914 shows an increase of 14.7 per cent since 1909 and 70.3 per cent since 1904. There was an increase of 34.4 per cent in the number of cattle hides treated and of 49.9 per cent in their cost in 1914, as compared with 1909. The number of calf and kip skins tanned and finished in 1914 was a decrease of 37.3 per cent over 1909, and the amount expended for this class of materials was 20.5 per cent less in 1914 than in 1909. Sheep and lamb skins show a steady decrease from census to census, in both number and cost. All other raw stock consisting of horsehides, goatskins, pigskins, etc., increased in value at each census.

The value of products in 1914 was \$17,509,256, an increase of 17.4 per cent over the value reported in 1909. Upper leather constituted 29.8 per cent of the

total value of finished products and calf and kip skins 34 per cent in 1914, the former showing an increase compared with 1909, and the latter, a decrease. Comparatively few sheepskins are treated in this state, and the number and value reported show a steady decrease. "All other leather" covers finished splits, horse, case, bag, strap, harness, upper, rough, skirting, patent, glove, sole, suspender, upholstery, and other leather. An unusually large number of items are included in this class in 1914 in order to avoid disclosing the operations of individual establishments.

Table 38	1914	1909	1904
MATERIALS.			
Total cost.....	\$13,917,432	\$12,130,609	\$8,173,788
Cattle hides:			
Number.....	892,256	663,928	707,441
Cost.....	\$5,786,640	\$3,859,429	\$2,537,379
Calf and kip skins:			
Number.....	1,885,276	3,008,616	2,291,546
Cost.....	\$4,399,144	\$5,532,850	\$3,378,153
Sheep and lamb skins:			
Number.....	1,069,914	1,562,628	2,065,943
Cost.....	\$774,399	\$922,466	\$1,075,737
All other raw stock, cost.....	\$1,221,598	\$436,138	\$117,873
Fuel and rent of power, cost.....	\$160,482	\$151,707	\$76,664
All other materials, cost.....	\$1,575,109	\$1,228,019	\$987,982
PRODUCTS.			
Total value.....	\$17,509,256	\$14,911,782	\$10,758,196
Leather:			
Cattle side upper—			
Sides.....	1,196,277	932,482	364,950
Value.....	\$5,216,713	\$3,058,427	\$828,060
Calf and kip skins—			
Number.....	1,868,815	2,926,674	2,293,950
Value.....	\$5,953,430	\$7,071,221	\$4,741,324
Sheep and lamb skins—			
Number.....	683,978	1,142,669	1,696,713
Value.....	\$437,609	\$716,605	\$964,099
All other, value.....	\$5,123,801	\$3,487,921	\$3,472,231
All other products, value.....	\$777,703	\$577,608	\$752,482

Laundries.—Statistics for power laundries are not included in the general tables or in the totals for all manufacturing industries. Table 39, however, summarizes these statistics for Illinois for 1914 and 1909.

Table 39.	POWER LAUNDRIES.		
	Number or amount.		Per cent of increase, ¹ 1909-1914.
	1914	1909	
Number of establishments.....	461	448	2.9
Persons engaged in the industry.....	12,470	10,916	14.2
Proprietors and firm members.....	437	470	-7.0
Salaried employees.....	1,029	741	38.9
Wage earners (average number).....	11,004	9,705	13.4
Primary horsepower.....	13,472	10,780	25.0
Capital.....	\$8,401,995	\$5,540,003	51.7
Salaries and wages.....	6,624,805	5,035,652	31.6
Salaries.....	1,150,466	718,986	60.0
Wages.....	5,474,339	4,316,666	26.3
Paid for contract work.....	82,215	8,064	919.5
Rent and taxes (including internal revenue).....	378,047	283,864	33.2
Cost of materials.....	2,638,683	1,721,845	53.2
Amount received for work done.....	12,846,432	10,049,445	27.8

¹ A minus sign (—) denotes decrease.

In 1914 Illinois ranked third among the states in amount received for work done and second in number of persons engaged in the industry. The table shows increases over 1909 in all the items given, except proprietors and firm members. The amount received for work done increased 27.8 per cent and the average

number of wage earners, 13.4 per cent. Establishments owned by individuals reported 25.6 per cent of the receipts for work done; those owned by corporations, 58.4 per cent; and those under other forms of ownership, 16 per cent.

Table 40 shows, for 1914 and 1909, the number of wage earners employed in the laundries on the 15th of each month, or nearest representative day, and the percentage which this number represents of the greatest number employed in any month of the same year.

Table 40	WAGE EARNERS.			
	Number.		Per cent of maximum.	
	1914	1909	1914	1909
MONTH.				
January.....	10,959	9,288	96.3	91.6
February.....	10,869	9,369	95.5	92.4
March.....	10,964	9,425	96.4	92.9
April.....	11,094	9,522	97.5	93.9
May.....	11,267	9,741	99.0	96.1
June.....	11,378	9,862	100.0	97.2
July.....	11,147	10,042	98.0	99.0
August.....	11,064	10,141	97.2	100.0
September.....	10,976	10,008	96.5	98.7
October.....	10,856	9,718	95.4	95.8
November.....	10,769	9,657	94.6	95.2
December.....	10,705	9,686	94.1	95.5

Table 41 gives statistics as to kinds and amounts of power used in the laundries of the state in 1914 and 1909, together with percentages of increase for the five-year period.

Table 41	KIND.	NUMBER OF ENGINES OR MOTORS.		HORSEPOWER.		
				Amount.		Per cent of in- crease, ¹ 1909- 1914.
		1914	1909	1914	1909	
Primary power, total.....		949	599	13,472	10,780	25.0
Owned.....		341	328	11,193	9,680	15.6
Steam ²		325	304	11,037	9,494	16.3
Internal combustion.....		13	23	134	171	-21.6
Water wheels, turbines, and mo- tors.....		3	1	22	15	46.7
Rented.....		608	271	2,279	1,100	107.2
Electric.....		608	271	2,204	1,044	111.1
Other.....				75	56	33.9
Electric.....		1,010	467	3,371	1,986	69.7
Rented.....		608	271	2,204	1,044	111.1
Generated by establishments report- ing.....		402	196	1,167	942	23.9

¹ A minus sign (—) denotes decrease.

² Figures for horsepower include for 1909 the amounts reported under the head of "other" owned power.

Table 42 shows the kinds and quantities of fuel used in the laundries, as reported at the censuses of 1914 and 1909, with percentages of increase.

Table 42	KIND.	Unit.	QUANTITY.		Per cent of in- crease, ¹ 1909- 1914.
			1914	1909	
	Anthracite coal.....	Tons, 2,240 lbs.	4,305	12,854	-68.5
	Bituminous coal.....	Tons, 2,000 lbs.	164,198	126,068	30.2
	Coke.....	Tons, 2,000 lbs.	667	551	21.1
	Oil, including gasoline.....	Barrels.....	630	2,172	-71.0
	Gas.....	1,000 cubic feet.....	73,843	47,655	55.0

¹ A minus sign (—) denotes decrease.

GENERAL TABLES.

Table 43 gives, for 1914, 1909, and 1904, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products, for selected industries in the state and in the cities having 50,000 inhabitants or more; and for the cities having from 10,000 to 50,000 inhabitants, similar data for all industries combined.

Table 44 presents, for 1914, for the state as a whole and for cities with 50,000 inhabitants or more, statistics in detail for each industry that can be shown without the disclosure of individual operations; and with the exception of Cicero, for the cities having from 10,000 to 50,000 inhabitants, for all industries combined.

TABLE 43.—COMPARATIVE SUMMARY FOR 1914, 1909, AND 1904.

INDUSTRY AND CITY.		Cen- sus year.	Number of estab- lish- ments.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.		Cen- sus year.	Number of estab- lish- ments.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
Expressed in thousands.									Expressed in thousands.								
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES. .																	
All industries.....	1914	18,388	506,943	1,305,930	\$340,910	\$1,340,183	\$2,247,323	Carriages and wagons and materials.	1914	296	4,861	12,285	\$3,405	\$8,368	\$15,192		
	1909	18,026	465,764	1,013,071	273,319	1,160,927	1,919,277		1909	325	5,852	9,684	3,588	9,479	16,831		
	1904	14,921	379,436	741,555	208,405	840,057	1,410,342		1904	324	5,155	7,238	2,778	5,746	11,392		
Agricultural imple- ments.	1914	73	19,556	50,044	15,668	32,878	65,338	Cars and general shop construction and re- pairs by electric-rail- road companies.	1914	43	1,813	1,845	1,387	1,527	3,181		
	1909	79	19,240	38,040	11,718	24,824	57,268		1909	30	2,240	2,225	1,395	1,807	3,451		
	1904	82	15,359	34,934	8,851	17,751	38,412		1904	10	1,006	412	654	418	1,143		
Artificial stone prod- ucts.	1914	420	1,122	1,826	781	1,097	2,665	Cars and general shop construction and re- pairs by steam-rail- road companies.	1914	94	28,682	36,781	20,433	18,318	41,496		
	1909	366	785	1,111	439	577	1,488		1909	73	23,131	20,740	15,288	15,233	32,229		
	1904	27	91	32	52	53	158		1904	99	19,095	15,733	12,105	12,268	25,491		
Automobiles, including bodies and parts.	1914	91	2,545	3,421	1,946	6,288	11,018	Cars, steam-railroad, not including opera- tions of railroad com- panies.	1914	23	18,000	37,622	15,686	40,429	61,316		
	1909	65	2,382	1,786	1,653	3,979	7,154		1909	28	10,945	18,651	7,824	15,336	27,001		
	1904	12	167	136	107	112	357		1904	16	9,036	14,830	5,931	21,173	30,926		
Babbitt metal and solder	1914	12	203	1,117	155	4,296	5,143	Cement.....	1914	6	1,467	23,986	1,184	2,859	6,468		
	1909	19	183	988	109	3,374	4,146		1909	6	1,395	15,270	855	1,619	4,088		
	1904	12	142	427	70	1,916	2,500		1904	6	540	6,100	328	460	1,178		
Bags, other than paper..	1914	9	275	292	141	2,326	2,876	Chemicals.....	1914	26	1,682	8,590	1,164	5,360	8,618		
	1909	6	189	157	175	685	965		1909	422	843	5,917	536	2,915	4,683		
	1904	4	127	112	47	642	809		1904	417	728	2,883	397	1,361	2,306		
Baking powders and yeast.	1914	19	628	3,022	383	3,467	8,455	Clocks and watches, in- cluding cases and ma- terials.	1914	15	5,688	3,151	3,321	2,038	7,659		
	1909	24	657	1,189	346	3,261	7,632		1909	19	5,665	2,578	3,217	1,688	7,045		
	1904	22	758	1,057	349	1,787	4,541		1904	12	4,071	1,232	2,357	996	4,999		
Belting, leather.....	1914	8	157	136	129	978	1,405	Clothing, men's, includ- ing shirts.	1914	604	35,119	5,142	20,019	41,310	89,144		
	1909	11	233	430	165	1,385	2,188		1909	715	36,152	3,729	16,580	45,228	89,473		
	1904	10	157	212	96	617	1,055		1904	624	21,355	2,176	10,215	28,026	57,002		
Blacking and cleansing and polishing prepara- tions.	1914	73	256	329	141	719	1,304	Clothing, women's.....	1914	241	8,113	1,163	4,530	11,219	20,751		
	1909	58	236	336	123	569	1,230		1909	221	6,151	804	3,152	9,214	16,635		
	1904	38	175	63	69	358	661		1904	191	4,690	721	2,198	6,333	12,237		
Boots and shoes, includ- ing cut stock and find- ings.	1914	57	6,397	3,434	3,373	12,141	18,407	Coffee and spice, roast- ing and grinding.	1914	34	1,193	3,152	576	17,094	22,045		
	1909	53	5,792	2,770	3,143	10,899	16,755		1909	35	1,018	2,709	525	15,114	19,751		
	1904	52	4,249	1,977	1,991	6,415	9,993		1904	25	953	2,010	432	12,483	15,745		
Boxes, cigar.....	1914	18	390	281	165	298	672	Coffins, burial cases, and undertakers' goods.	1914	21	802	1,359	527	1,307	2,705		
	1909	18	404	296	158	317	664		1909	21	732	1,071	406	982	2,260		
	1904	17	416	183	151	252	575		1904	18	676	1,102	345	929	1,867		
Boxes, fancy and paper.	1914	80	4,586	5,600	2,158	5,173	9,741	Confectionery.....	1914	147	5,009	5,343	2,255	12,095	22,139		
	1909	61	4,085	4,143	1,501	3,012	6,350		1909	140	3,799	3,417	1,429	7,665	12,798		
	1904	50	2,700	2,649	954	1,684	3,686		1904	87	3,587	8,623	1,170	4,202	7,646		
Brass, bronze, and cop- per products.	1914	75	1,502	2,698	1,109	5,240	7,570	Cooperage and wooden goods, not elsewhere specified.	1914	61	1,921	4,730	1,096	4,596	6,598		
	1909	79	1,688	1,859	1,136	4,148	6,842		1909	80	2,388	5,247	1,127	4,479	6,611		
	1904	58	1,605	1,231	919	2,372	4,751		1904	110	2,567	4,072	1,176	4,782	7,088		
Bread and other bakery products.	1914	2,278	10,404	9,465	6,828	23,639	45,250	Copper, tin, and sheet- iron products.	1914	508	7,445	7,340	4,853	13,825	24,815		
	1909	2,099	8,611	5,618	5,495	21,606	36,118		1909	483	7,473	5,510	4,315	13,193	22,823		
	1904	1,406	7,415	3,795	4,115	14,279	26,145		1904	288	5,645	3,686	2,958	8,796	15,385		
Brick, tile, pottery, and other clay products.	1914	235	8,610	43,773	6,134	3,959	14,222	Corsets.....	1914	19	1,974	341	715	2,063	3,979		
	1909	379	9,731	44,008	6,271	3,617	14,380		1909	16	1,502	541	525	1,195	2,711		
	1904	480	7,879	33,974	4,296	2,437	10,802		1904	15	961	387	331	561	1,237		
Brooms.....	1914	65	646	387	318	820	1,533	Cutlery and tools, not elsewhere specified.	1914	84	1,631	4,082	1,032	1,177	3,297		
	1909	87	494	365	235	835	1,465		1909	80	1,393	2,385	760	1,072	2,758		
	1904	(2)	.....	.....	.....	.....	.....		1904	59	895	1,340	416	565	1,515
Brushes.....	1914	32	395	267	230	619	1,156	Dairymen's, poultry- men's, and apiarists' supplies.	1914	32	638	886	390	1,094	2,307		
	1909	32	326	138	180	554	965		1909	29	323	664	178	575	1,181		
	1904	(2)	.....	.....	.....	.....	.....		1904	24	359	578	152	561	1,131
Butter, cheese, and con- densed milk.	1914	267	1,755	6,184	1,079	18,236	21,792	Electrical machinery, apparatus, and sup- plies.	1914	142	16,483	21,140	12,366	19,379	45,667		
	1909	295	1,732	6,753	942	14,267	17,798		1909	143	9,641	11,636	6,413	13,628	26,828		
	1904	405	1,735	6,350	829	10,709	18,277		1904	104	6,131	6,253	3,203	7,649	16,700		
Buttons.....	1914	31	696	476	325	305	765	Electroplating.....	1914	46	398	990	291	357	865		
	1909	28	548	275	247	237	676		1909	43	375	703	245	226	697		
	1904	22	280	220	102	71	251		1904	26	272	281	155	124	425		
Canning and preserving.	1914	117	2,560	7,078	1,108	6,680	10,121	Explosives.....	1914	9	366	2,083	194	1,655	2,582		
	1909	118	2,383	4,305	904	4,813	7,620		1909	8	290	1,828	190	985	1,469		
	1904	125	2,146	2,630	827	4,316	7,044		1904	5	142	1,383	83	412	712		

¹ Excludes statistics for two establishments, to avoid disclosure of individual operations.

² Not reported separately.

³ Includes "pickles, preserves, and sauces."

⁴ Includes statistics for calcium lights, reported separately in 1909 and 1904.

⁵ Includes "stamped and enameled ware" and "tinware, not elsewhere specified."

MANUFACTURES—ILLINOIS.

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TABLE 43.—COMPARATIVE SUMMARY FOR 1914, 1909, AND 1904—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of ma- terials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of ma- terials.	Value of prod- ucts.
THE STATE.—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Roofing materials.....	1914	23	862	1,766	\$579	\$4,319	\$6,644	Stoves and furnaces, in- cluding gas and oil stoves.	1914	70	3,917	5,180	\$2,859	\$4,191	\$10,203
	1909	17	322	663	192	2,050	3,375		1909	71	4,499	4,983	2,957	3,856	10,287
	1904	15	201	355	109	923	1,310		1904	60	3,908	4,623	2,358	2,815	7,887
Scales and balances.....	1914	12	531	702	398	537	1,376	Surgical appliances and artificial limbs.	1914	37	687	574	412	1,672	3,238
	1909	13	248	293	151	245	574		1909	29	536	595	285	921	2,099
	1904	9	110	82	71	98	305		1904	29	433	239	178	411	1,010
Show cases.....	1914	12	311	430	220	255	694	Tobacco manufactures..	1914	1,622	7,653	1,143	4,509	10,054	26,037
	1909	16	386	419	248	290	829		1909	1,944	8,034	878	4,216	8,603	21,870
	1904	19	439	534	252	359	848		1904	1,825	7,471	618	3,738	5,995	16,062
Signs and advertising novelties.	1914	150	2,176	1,888	1,404	1,824	6,045	Type founding and printing materials.	1914	18	343	959	259	472	1,246
	1909	51	1,290	781	750	985	3,271		1909	19	438	391	303	375	1,248
	1904	(1)							1904	17	432	314	293	321	1,168
Slaughtering and meat packing.	1914	* 98	31,627	67,519	19,532	412,015	489,230	Wall paper, not made in paper mills.	1914	5	544	1,062	335	1,281	2,254
	1909	109	26,705	56,051	14,602	343,976	389,595		1909	5	290	492	173	702	1,397
	1904	95	27,111	39,400	14,658	280,592	318,201		1904	7	266	491	139	666	1,094
Smelting and refining, zinc.	1914	8	3,573	16,253	2,571	14,200	18,421	Windmills.....	1914	11	1,182	2,076	749	1,493	3,194
	1909	5	1,922	7,485	1,275	6,496	9,004		1909	11	1,453	2,105	877	2,034	4,089
	1904	5	1,643	5,187	884	3,900	5,426		1904	11	738	1,637	395	988	2,119
Smelting and refining, not from the ore.	1914	17	282	1,337	190	3,516	4,587	Window shades and fix- tures.	1914	47	918	2,102	544	3,632	4,951
	1909	11	369	1,763	207	3,234	3,930		1909	36	778	1,240	434	3,163	4,665
	1904	9	250	1,642	125	1,586	1,976		1904	22	367	332	160	945	1,445
Soap.....	1914	27	2,144	6,108	1,255	15,253	21,420	Wirework, including wire rope and cable, not elsewhere specified.	1914	51	886	1,677	555	3,421	4,682
	1909	34	2,188	5,155	1,053	13,948	20,181		1909	60	724	1,655	358	2,087	3,321
	1904	34	1,905	3,519	887	9,345	14,157		1904	62	1,012	2,475	488	2,416	3,760
Stereotyping and elec- trotyping.	1914	25	705	1,339	628	408	1,594	All other industries.....	1914	1,636	40,883	132,338	26,872	137,917	212,507
	1909	21	592	725	472	316	1,282		1909	1,417	36,793	88,758	20,943	118,512	183,390
	1904	20	685	506	547	229	1,205		1904	1,361	32,105	72,081	16,895	86,087	129,386

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.

CHICAGO—All in- dustries.								CHICAGO—Contd.							
	1914	10,115	313,710	681,114	\$213,737	\$901,933	\$1,483,498	Carpets, rag.....	1914	21	170	128	\$100	\$62	\$244
	1909	9,656	293,977	525,236	176,973	790,609	1,281,171		1909	25	163	73	84	43	206
	1904	8,159	241,984		136,405	589,914	955,036		1904	39	165		88	32	212
Artificial stone prod- ucts.	1914	24	293	242	282	313	841	Carriages and wagons and materials.	1914	136	1,776	4,604	1,325	2,598	5,104
	1909	19	150	82	104	146	356		1909	120	1,965	3,022	1,253	2,602	5,203
	1904	8	12		8	5	19		1904	122	1,829		1,093	1,812	4,076
Automobiles, including bodies and parts.	1914	65	1,429	1,612	1,107	2,155	4,700	Cars and general shop construction and re- pairs by steam-rail- road companies.	1914	23	11,835	13,150	8,260	7,089	16,688
	1909	41	1,460	734	1,131	1,707	3,940		1909	22	11,059	7,232	7,305	7,310	15,359
	1904	11	166		106	111	354		1904	22	8,592		5,792	4,993	11,172
Bags, other than paper..	1914	9	275	292	141	2,326	2,876	Cars, steam-railroad, not including operations of railroad companies.	1914	12	15,530	27,052	13,923	32,389	50,931
	1909	6	189	157	175	685	965		1909	18	8,553	14,576	6,387	11,620	20,892
	1904	4	127		47	642	809		1904	11	7,059		4,897	15,761	23,799
Baking powders and yeast.	1914	13	552	2,951	353	3,131	7,905	Chemicals.....	1914	15	174	950	112	1,064	1,817
	1909	16	522	1,142	304	2,988	7,009		1909	13	150	790	97	617	1,176
	1904	16	645		317	1,481	3,890		1904	11	358		228	1,032	1,748
Baskets, and rattan and willow ware.	1914	8	45	21	23	22	74	Clocks and watches, in- cluding cases and ma- terials.	1914	6	82	35	52	276	427
	1909	10	41	16	26	34	81		1909	5	109	26	60	282	445
	1904	10	56		27	30	89		1904	3	45		32	34	147
Boots and shoes, includ- ing cut stock and find- ings.	1914	41	3,936	2,022	2,357	7,523	11,663	Cloth, sponging and re- finishing.	1914	7	123	35	86	2	160
	1909	31	3,027	1,103	1,920	6,045	8,855		1909	6	91	36	52	1	119
	1904	35	2,446		1,311	4,138	6,559		1904	5	64		47	3	90
Boxes, cigar.....	1914	9	320	210	141	251	577	Clothing, men's, includ- ing shirts.	1914	563	32,400	4,292	19,042	38,440	84,340
	1909	9	304	214	125	258	541		1909	678	33,615	2,916	18,638	39,907	85,206
	1904	10	344		130	198	478		1904	593	19,655		9,706	26,655	54,626
Boxes, fancy and paper.	1914	67	3,756	2,148	1,700	3,325	6,945	Clothing, women's.....	1914	227	7,330	1,051	4,260	10,380	19,211
	1909	48	3,609	1,575	1,311	2,232	5,044		1909	204	5,615	698	2,997	8,658	15,677
	1904	39	2,324		809	1,324	2,825		1904	174	4,308		2,083	6,011	11,687
Brass, bronze, and cop- per products.	1914	59	1,222	2,153	897	4,381	6,314	Coffins, burial cases, and undertakers' goods.	1914	13	654	1,100	440	1,071	2,262
	1909	56	1,167	1,099	810	3,266	5,131		1909	13	576	828	339	764	1,838
	1904	43	889		534	1,825	3,195		1904	10	471		236	632	1,297
Bread and other bakery products.	1914	1,305	7,680	6,543	5,091	17,418	34,217	Confectionery.....	1914	97	4,409	4,546	2,026	11,011	20,349
	1909	1,177	6,437	3,847	4,146	16,280	26,908		1909	87	3,241	3,045	1,250	6,703	11,222
	1904	852	5,795		3,240	11,132	20,654		1904	62	2,953		1,018	3,594	6,550
Brooms.....	1914	31	294	104	176	359	691	Cooperage and wooden goods, not elsewhere specified.	1914	34	1,186	2,229	662	2,660	3,839
	1909	28	222	169	118	402	680		1909	37	1,166	1,964	601	2,188	3,368
	1904	(5)							1904	54	1,286		623	2,135	3,406
Brushes.....	1914	28	311	203	197	564	1,038	Copper, tin, and sheet- iron products.	1914	293	3,995	3,196	2,774	7,214	13,236
	1909	28	275	94	163	516	880		1909	268	3,859	2,859	2,472	6,463	12,242
	1904	(5)							1904	170	3,347		1,933	3,957	8,137
Buttons.....	1914	14	320	146	147	184	438	Cutlery and tools, not elsewhere specified.	1914	56	1,150	2,098	706	706	2,170
	1909	13	190	39	72	139	335		1909	53	982	1,499	554	680	1,895
	1904	11	47		16	22	71		1904	37	639		288	348	946

¹ Not reported separately.

² Includes "sausage, not made in slaughtering and meat-packing establishments."

³ Figures do not agree with those published because certain establishments revised their reports.

⁴ Excludes statistics for two establishments, to avoid disclosure of individual operations.

⁵ Included in "all other industries," separate figures not available.

⁶ Includes statistics for "calcium lights," reported separately in 1909 and 1904.

⁷ Includes "stamped and enameled ware" and "tinware."

TABLE 43.—COMPARATIVE SUMMARY FOR 1914, 1909, AND 1904—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
CHICAGO—Contd.								CHICAGO—Contd.							
Dairymen's, poultry- men's, and apiarists' supplies.	1914	7	187	269	\$119	\$150	\$681	Paints and varnishes...	1914	60	1,959	9,175	\$1,201	\$14,310	\$22,811
	1909	7	49	79	37	147	340		1909	61	1,606	5,837	995	11,845	18,942
	1904	5	18	.....	10	199	271		1904	52	1,195	.....	725	8,202	12,665
Electrical machinery, apparatus, and sup- plies.	1914	125	5,508	4,849	3,648	7,152	17,568	Paper goods.....	1914	839	1,172	1,080	590	1,785	3,517
	1909	123	6,096	6,443	3,860	11,405	20,669		1909	41	957	607	410	1,393	2,831
	1904	96	5,927	.....	3,099	7,501	16,292		1904	29	423	.....	154	325	781
Electroplating.....	1914	36	309	439	236	86	487	Patent medicines and compounds and drug- gists' preparations.	1914	271	1,309	1,644	788	3,199	10,809
	1909	34	310	422	214	107	484		1909	273	1,361	2,030	632	3,216	10,360
	1904	23	234	.....	142	54	327		1904	248	1,564	.....	675	2,833	11,942
Fancy articles, not else- where specified.	1914	146	684	419	447	1,203	2,344	Photographic appa- ratus and materials.	1914	18	499	672	327	646	1,315
	1909	40	438	210	218	568	1,289		1909	13	284	430	157	318	740
	1904	38	781	.....	332	656	1,664		1904	19	260	.....	124	282	802
Foundry and machine- shop products.	1914	2707	31,404	59,471	22,342	36,064	85,359	Photo-engraving.....	1914	23	907	778	1,012	430	2,356
	1909	669	31,055	54,876	20,490	40,755	89,669		1909	21	878	405	848	422	2,156
	1904	582	28,792	.....	17,772	28,568	68,491		1904	18	571	.....	507	254	1,324
Fur goods.....	1914	84	300	141	219	870	1,605	Printing and publish- ing.	1914	10,543	26,247	25,871	20,012	29,326	97,507
	1909	59	308	59	225	1,060	1,903		1909	1,395	22,326	20,162	15,077	21,256	74,211
	1904	34	318	.....	198	816	1,421		1904	1,262	17,464	.....	11,279	14,872	53,033
Furnishing goods, men's	1914	41	1,550	593	743	3,444	5,538	Slaughtering ohd meat packing.	1914	1158	26,704	57,318	16,542	345,522	410,709
	1909	38	1,905	562	820	3,877	6,122		1909	67	22,064	45,629	11,985	285,250	325,062
	1904	31	1,282	.....	458	2,131	3,503		1904	56	22,767	.....	12,483	237,754	270,549
Gold, leaf and foil.....	1914	6	146	66	74	147	257	Smelting and refining, not from the ore.	1914	13	126	255	106	2,958	3,857
	1909	7	143	13	61	128	226		1909	7	91	168	63	2,237	2,574
	1904	5	140	.....	74	100	223		1904	6	25	.....	20	1,002	1,140
Grease and tallow, not including lubricating greases.	1914	8	583	1,361	432	3,114	3,975	Soap.....	1914	23	2,116	5,974	1,239	15,134	21,255
	1909	10	649	2,207	452	3,781	4,948		1909	27	2,139	4,967	1,035	13,787	19,939
	1904	13	560	.....	371	1,417	2,303		1904	23	1,835	.....	857	9,125	13,770
Hand stamps and sten- cils and brands.	1914	27	190	160	130	179	564	Steam packing.....	1914	15	164	125	131	309	617
	1909	27	172	100	101	167	467		1909	15	108	148	62	194	408
	1904	25	222	.....	134	84	363		1904	11	130	.....	66	222	468
Hats and caps, other than felt, straw, and wool.	1914	36	465	81	305	517	1,127	Stereotyping and elec- trotyping.	1914	25	705	1,339	628	408	1,594
	1909	38	463	61	267	479	1,046		1909	21	592	725	472	316	1,282
	1904	35	436	.....	253	536	1,027		1904	18	651	.....	524	224	1,165
Hosiery and knit goods.	1914	33	1,089	468	484	1,262	2,325	Surgical appliances and artificial limbs.	1914	34	683	568	410	1,670	3,231
	1909	29	743	167	289	783	1,477		1909	24	529	592	279	917	2,075
	1904	30	769	.....	262	621	1,309		1904	27	431	.....	177	410	1,004
Ice, manufactured.....	1914	18	448	10,732	403	455	1,334	Tobacco manufactures..	1914	842	5,269	1,069	3,203	8,351	21,460
	1909	6	206	3,024	153	126	569		1909	1,050	5,220	783	2,785	6,722	16,639
	1904	3	133	.....	78	87	349		1904	960	4,347	.....	2,283	4,199	11,017
Ink, printing.....	1914	9	54	345	38	260	504	Type founding and printing materials.	1914	18	343	959	259	472	1,246
	1909	7	38	185	26	164	415		1909	19	438	391	303	375	1,248
	1904	6	33	.....	17	99	257		1904	17	432	.....	293	321	1,188
Iron and steel, steel works and rolling mills.	1914	7	4,663	97,493	4,285	18,731	27,002	All other industries.....	1914	1,955	71,284	245,949	48,466	197,258	329,411
	1909	6	6,983	79,456	5,003	29,023	45,984		1909	1,806	70,352	187,078	40,008	178,326	297,909
	1904	5	5,087	.....	3,526	16,711	24,840		1904	1,575	58,497	.....	31,805	130,809	217,571
Jewelry.....	1914	89	929	514	751	1,212	3,136	EAST ST. LOUIS—							
	1909	55	910	294	606	1,218	2,635	All industries.							
	1904	41	710	.....	455	798	1,746	1914	125	5,863	18,133	4,369	17,423	26,905	
Lapidary work.....	1914	6	28	21	27	70	127	1909	138	5,226	23,238	3,233	11,361	18,104	
	1909	3	14	6	13	53	88	1904	91	4,505	.....	2,494	5,696	10,586	
	1904	4	19	.....	18	82	140	Bread and other bakery products.	1914	17	77	72	62	216	335
Leather goods.....	1914	175	1,703	1,142	1,087	3,021	5,463		1909	20	71	49	53	177	336
	1909	99	2,178	804	1,174	3,280	5,861		1904	11	58	.....	41	124	221
	1904	82	2,022	.....	1,076	2,492	5,023	Cars and general shop construction and re- pairs by steam-rail- road companies.	1914	6	991	730	765	370	1,276
Leather, tanned, cur- ried, and finished.	1914	24	2,311	7,128	1,333	12,512	15,663		1909	3	628	409	457	364	847
	1909	24	2,674	6,212	1,418	10,788	13,244		1904	4	543	.....	297	224	541
	1904	23	2,479	.....	1,188	7,133	9,420	Copper, tin, and sheet- iron work.	1914	7	18	.....	14	24	50
Liquors, malt.....	1914	37	3,973	22,156	3,978	7,599	28,933		1909	14	73	.....	66	82	183
	1909	45	2,867	15,666	2,378	4,850	19,512		1904	4	29	.....	21	16	51
	1904	56	2,763	.....	2,127	3,529	16,983	Lumber, planing-mill products, not includ- ing planing mills con- nected with sawmills.	1914	3	50	206	39	72	150
Lumber and timber products.	1914	207	9,022	26,128	6,267	16,813	28,711		1909	7	102	685	62	211	323
	1909	195	10,462	25,917	6,149	20,768	32,709		1904	7	90	.....	77	98	236
	1904	154	7,794	.....	4,013	11,763	19,808	Printing and publishing	1914	9	52	53	42	38	111
Marble and stone work.	1914	110	1,256	4,142	1,054	1,260	3,362		1909	8	50	51	38	27	105
	1909	107	1,388	3,002	1,137	1,714	3,930		1904	9	50	.....	28	19	83
	1904	73	1,337	.....	951	1,244	3,356	Tobacco, cigars.....	1914	8	17	.....	11	11	29
Mattresses and spring beds.	1914	60	890	1,080	481	1,905	3,304		1909	12	11	.....	9	12	40
	1909	58	683	495	371	1,349	2,377		1904	9	20	.....	11	11	39
	1904	46	755	.....	331	1,011	1,753	All other industries.....	1914	75	4,658	17,122	3,436	16,692	24,954
Models and patterns, not including paper patterns.	1914	58	322	525	256	160	706		1909	74	4,291	22,044	2,548	10,488	16,265
	1909	56	322	494	227	161	687		1904	47	3,715	.....	2,019	5,204	9,415
	1904	49	273	.....	197	75	494								
Musical instruments, pianos and organs and materials.	1914	46	4,950	5,502	3,304	5,055	12,671								
	1909	37	5,209	4,677	3,034	4,848	11,487								
	1904	32	4,886	.....	2,716	3,416	8,488								

¹ Includes "combs and hairpins" and "ivory, shell, and bone work."

² Includes "automobile repairing;" "bells;" "engines, steam, gas, and water;" "gas machines and gas and water meters;" "hardware;" "hardware, saddlery;" "iron and steel, cast-iron pipe;" "plumbers' supplies;" "pumps, power;" "steam fittings and steam and hot-water heating apparatus;" and "structural ironwork."

³ Excludes statistics for one establishment, to avoid disclosure of individual operations.

⁴ Includes "suspenders, garters, and elastic woven goods."

⁵ Includes "pocketbooks;" "saddlery and harness;" and "trunks and valises."

⁶ Includes "boxes, wooden packing;" "lumber, planing mills;" and "window and door screens and weather strips."

⁷ Excludes statistics for two establishments to avoid disclosure of individual operation.

⁸ Includes "cardboard, not made in paper mills" and "envelopes."

⁹ Includes "perfumery and cosmetics."

¹⁰ Includes "bookbinding and blank-book making;" "engraving, steel and copper plate;" "lithographing;" and "printing and publishing, music."

¹¹ Includes "sausage, not made in slaughtering and meat-packing establishments."

¹² Figures do not agree with those published because it was necessary to revise them in order to include data only for those establishments located within the corporate limits of the city.

MANUFACTURES—ILLINOIS.

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TABLE 43.—COMPARATIVE SUMMARY FOR 1914, 1909, AND 1904—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Expressed in thousands.			INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Expressed in thousands.		
					Wages.	Cost of ma- terials.	Value of prod- ucts.						Wages.	Cost of ma- terials.	Value of prod- ucts.
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
PEORIA—All indus- tries.	1914	283	6,285	22,881	\$4,144	\$21,289	\$64,689	PEORIA—Contd. All other industries.....	1914	138	4,313	19,589	\$2,865	\$17,794	\$58,338
	1909	283	5,981	16,266	3,552	17,773	63,061		1909	120	3,681	12,736	2,211	14,108	56,480
	1904	263	5,834	.....	3,209	15,835	60,420		1904	104	3,732	.....	2,120	12,724	54,923
Bread and other bakery products.	1914	34	275	256	158	576	1,057	ROCKFORD—All in- dustries.	1914	265	10,472	21,039	6,645	13,414	26,371
	1909	39	194	172	104	482	764		1909	205	9,309	16,217	5,213	10,582	22,266
	1904	40	172	.....	81	430	660		1904	180	7,239	.....	3,608	8,066	15,276
Carriages and wagons and materials.	1914	5	46	42	34	66	155	SPRINGFIELD—All industries.	1914	189	4,157	9,823	2,535	5,882	11,770
	1909	8	63	62	41	69	141		1909	171	3,652	6,368	2,096	4,204	8,497
	1904	16	114	.....	57	128	211		1904	122	3,071	.....	1,639	2,490	5,797
Cooperage, hogsheads and barrels.	1914	5	288	1,103	175	876	1,176	Bread and other bakery products.	1914	17	83	102	56	210	370
	1909	5	514	910	172	840	1,153		1906	16	55	79	43	182	310
	1904	4	447	.....	176	984	1,288		1904	10	46	.....	34	132	204
Copper, tin, and sheet- iron products.	1914	9	221	245	142	378	670	Carriages and wagons...	1914	5	42	34	28	31	66
	1909	9	239	196	130	453	684		1909	7	54	80	35	41	98
	1904	10	181	.....	90	211	395		1904	4	21	.....	10	12	28
Flour-mill and grist- mill products.	1914	4	50	365	33	725	815	Copper, tin, and sheet- iron work.	1914	14	54	63	48	62	159
	1909	4	34	326	22	640	759		1909	10	60	32	39	90	178
	1904	3	32	.....	19	487	594		1904	6	42	.....	29	47	95
Foundry and machine- shop products.	1914	215	195	431	152	183	439	Foundry and machine- shop products.	1914	11	137	593	91	207	461
	1909	20	420	986	315	515	1,082		1909	10	221	794	135	255	482
	1904	19	398	.....	221	298	786		1904	4	241	.....	127	153	427
Leather goods, saddlery and harness.	1914	4	28	8	19	36	70	Lumber and timber products.	1914	9	106	358	83	144	294
	1909	4	37	10	24	21	72		1909	7	147	312	89	110	242
	1904	3	47	.....	30	68	151		1904	4	147	.....	108	131	280
Lumber, planing-mill products, not includ- ing planing mills con- nected with sawmills.	1914	7	159	369	127	209	437	Printing and publishing	1914	28	424	387	195	241	936
	1909	6	166	458	120	184	398		1909	27	321	257	203	163	739
	1904	5	155	.....	95	177	325		1904	16	354	.....	181	93	470
Printing and publishing	1914	30	446	473	267	254	1,020	Tobacco, cigars.....	1914	31	120	.....	65	67	190
	1909	32	325	410	209	221	881		1909	30	122	.....	61	73	206
	1904	26	280	.....	165	166	608		1904	32	126	.....	61	64	195
Tobacco, cigars.....	1914	32	264	.....	172	192	512	All other industries.....	1914	74	3,191	8,286	1,969	4,920	9,294
	1909	36	308	.....	204	240	647		1909	64	2,672	4,814	1,491	3,290	6,242
	1904	43	276	.....	155	162	479		1904	46	2,094	.....	1,089	1,858	4,098

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

ALTON	1914	76	2,662	8,335	1,759	8,604	12,865	GALESBURG	1914	60	1,362	1,984	941	1,515	3,192
	1909	69	2,429	5,453	1,528	7,262	10,096		1909	62	1,465	1,968	887	1,416	2,919
	1904	62	3,069	.....	1,728	5,423	8,697		1904	58	1,447	.....	756	936	2,218
AURORA	1914	140	4,777	7,794	3,033	5,259	10,789	JACKSONVILLE	1914	63	932	2,855	499	1,360	2,355
	1909	165	5,095	7,906	2,936	5,580	10,954		1909	57	947	1,189	487	1,307	2,299
	1904	103	4,078	.....	2,068	3,538	7,329		1904	55	899	.....	458	1,102	1,982
BELLEVIEW	1914	129	2,450	4,447	1,410	2,906	5,727	JOLIET	1914	136	4,999	45,918	3,569	20,036	30,091
	1909	119	1,872	4,541	1,062	2,324	4,615		1909	137	6,383	37,744	4,435	27,758	38,817
	1904	96	1,765	.....	1,011	1,787	4,357		1904	104	5,792	.....	3,699	21,259	32,897
BLOOMINGTON	1914	100	2,384	4,579	1,540	2,084	4,804	KANKAKEE	1914	53	1,430	3,543	763	1,704	3,193
	1909	107	2,077	2,877	1,186	2,527	4,868		1909	55	1,349	3,988	622	1,493	2,723
	1904	81	2,275	.....	1,228	3,492	5,777		1904	49	1,038	.....	512	1,026	2,089
CAIRO	1914	61	1,522	5,222	853	3,046	4,584	LA SALLE	1914	30	1,214	8,342	817	3,484	5,246
	1909	56	1,237	4,764	628	2,957	4,440		1909	28	936	5,795	593	2,683	4,328
	1904	57	1,435	.....	653	2,838	4,381		1904	24	1,197	.....	685	1,878	3,158
CANTON	1914	34	920	5,807	829	1,126	2,577	LINCOLN	1914	40	239	506	134	284	561
	1909	33	1,262	3,716	692	1,183	2,942		1909	40	220	385	115	290	570
									1904	39	236	.....	125	375	784
CHAMPAIGN	1914	59	382	1,125	243	633	1,245	MATTOON	1914	47	735	2,305	471	693	1,544
	1909	42	273	476	174	419	846		1909	35	948	1,019	561	668	1,434
	1904	36	289	.....	169	158	486		1904	34	1,022	.....	599	522	1,309
CHICAGO HEIGHTS	1914	77	4,288	21,002	2,947	7,685	14,486	MOLINE	1914	108	5,053	12,200	3,510	10,387	19,925
	1909	79	3,953	10,176	2,471	5,611	10,839		1909	65	5,387	10,005	3,474	11,049	20,664
									1904	62	3,987	.....	2,363	6,895	13,158
DANVILLE	1914	100	2,109	4,735	1,346	2,928	5,291	OAK PARK	1914	47	268	1,113	241	492	1,555
	1909	76	1,744	3,253	1,077	1,430	3,351		1909	23	282	758	197	391	1,118
	1904	70	1,884	.....	977	1,665	3,304	QUINCY	1914	194	3,067	6,297	1,863	4,435	9,557
DECATUR	1914	126	4,003	10,634	2,324	6,666	11,957		1909	235	3,997	7,557	2,066	5,631	11,066
	1909	157	2,699	6,447	1,420	5,918	9,768		1904	234	4,602	.....	2,206	5,188	10,748
	1904	116	2,340	.....	1,125	5,593	8,667	ROCK ISLAND	1914	106	1,837	5,480	1,377	3,411	6,488
ELGIN	1914	91	5,529	5,956	3,321	4,271	10,492		1909	74	1,754	3,173	1,026	2,818	5,387
	1909	114	6,067	5,984	3,364	4,029	10,537		1904	72	1,703	.....	895	2,580	5,333
	1904	76	4,885	.....	2,713	4,090	9,349	STREATOR	1914	60	1,763	5,823	1,040	1,762	3,887
EVANSTON	1914	49	924	2,249	656	2,439	3,985		1909	45	1,275	3,140	644	817	2,137
	1909	60	837	1,056	590	2,350	3,778		1904	34	1,544	.....	1,035	584	1,889
	1904	38	738	.....	384	1,583	2,551	WAUKEGAN	1914	48	2,276	18,663	1,777	7,630	12,439
FREEPORT	1914	63	2,566	4,600	1,661	3,910	7,447		1909	58	2,956	23,044	2,038	13,889	19,541
	1909	69	2,853	4,412	1,570	4,417	7,811		1904	42	2,285	.....	1,436	7,721	10,994
	1904	61	1,516	.....	827	1,423	3,109								

1 Excludes statistics for one establishment, to avoid disclosure of individual operations.

2 Includes "hardware" and "structural ironwork."

3 Excludes statistics for two establishments, to avoid disclosure of individual operations.

4 Includes "boxes, wooden packing" and "window and door screens and weather strips."

5 Includes "bookbinding and blank-book making" and "engraving, steel and copper plate."

6 Figures do not agree with those published because certain establishments revised their figures.

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.			
									Maximum month.	Minimum month.								
1	All industries.....	18,388	617,927	15,854	19,151	56,000	19,979	506,943	Mh 521,752	De 483,275	(*)	(*)	(*)	(*)	(*)	\$1,943,835,846		
2	Agricultural implements.....	73	22,015	40	360	1,831	228	19,556	Ja 26,217	Se 12,338	19,689	19,478	201	10	.....	153,599,239	
3	Artificial flowers.....	13	182	10	8	8	11	145	Mh 162	Fe 134	145	38	99	.....	8	191,119	
4	Artificial limbs.....	11	69	10	8	11	7	33	Ja 37	Se 31	33	28	4	1	.....	26,670	
5	Artificial stone products.....	420	1,738	512	68	27	9	1,122	Au 1,463	Ja 661	1,424	1,420	3	1	.....	1,734,667	
6	Artists' materials.....	9	110	5	6	17	10	72	Oc 76	Mh 70	72	53	13	0	.....	314,906	
7	Asbestos products, not including steam packing.....	4	139	1	10	9	10	109	Mh 140	Je 84	100	65	34	1	.....	280,165	
8	Automobile bodies and parts.....	66	1,575	54	91	136	58	1,236	No 1,403	Ja 1,081	1,284	1,256	27	1	.....	2,469,655	
9	Automobiles.....	25	1,652	8	65	202	68	1,309	My 1,560	De 1,104	1,293	1,287	6	.....	.....	7,463,988
10	Automobile repairing.....	235	1,118	266	41	20	32	759	.....	.....	772	765	4	3	.....	938,707
11	Repair work.....	227	1,094	257	39	20	31	747	Au 799	Ja 660	758	751	4	3	.....	927,161	
12	Vulcanizing tires.....	8	24	9	2	.....	1	12	Se 15	Ja 8	14	14	.....	.....	.....	11,546
13	Awnings, tents, and sails.....	57	507	54	26	24	26	377	Je 484	Ja 307	390	205	181	3	1	683,868		
14	Babbitt metal and solder.....	12	321	.....	39	55	24	203	.....	.....	199	196	3	.....	.....	1,804,810
15	Babbitt metal.....	6	50	.....	11	7	3	29	De 41	Je 25	41	41	.....	.....	.....	226,435
16	White metal and solder.....	6	271	.....	28	48	21	174	Mh 235	No 139	158	155	3	.....	.....	1,578,375
17	Bags, other than paper.....	9	318	6	12	12	13	275	Fe 280	No 260	268	119	149	.....	.....	464,731
18	Baking powders and yeast.....	19	1,041	9	57	281	66	628	Je 657	Ja 603	610	428	182	.....	.....	6,414,981
19	Baskets, and rattan and willow ware.....	11	61	14	1	.....	1	45	Ja 4	Je 40	44	38	5	1	.....	53,625
20	Belting, leather.....	8	235	7	17	42	12	157	Au 172	De 137	137	136	1	.....	.....	1,162,363
21	Billiard tables and materials.....	5	36	3	4	6	1	22	Ja 4	Jy 4	21	19	3	.....	.....	72,200
22	Blacking, stains, and dressings.....	20	234	16	12	34	16	156	Jy 176	Au 129	154	86	65	3	.....	363,112	
23	Bluing.....	8	31	6	4	2	2	17	Se 19	Ja 15	18	15	3	.....	.....	20,319
24	Bookbinding and blank-book making.....	102	2,801	82	85	82	92	2,460	Jy 2,751	No 2,248	2,454	1,312	1,081	29	32	2,773,214		
25	Boot and shoe cut stock.....	5	354	2	17	7	6	322	Oc 359	Ja 303	355	260	84	11	.....	753,899	
26	Boot and shoe findings.....	5	11	6	1	.....	.....	4	(*)	4	4	4	.....	.....	.....	7,500
27	Boots and shoes, including overgaiters, mocassins, and leggings.....	47	6,738	32	111	387	137	6,071	Jy 6,461	Ap 5,814	6,285	3,743	2,388	75	79	8,365,952		
28	Boxes, cigar.....	18	448	14	18	17	9	390	Ja 397	My 382	386	144	201	11	30	428,683		
29	Boxes, fancy and paper.....	80	5,196	36	166	264	144	4,586	.....	.....	4,537	1,924	2,164	43	406	8,529,233
30	Paper boxes and cartons.....	77	5,157	34	165	264	142	4,552	Ja 4,746	My 4,415	4,503	1,906	2,154	42	401	8,468,710		
31	All other.....	3	39	2	1	.....	2	34	Mh 4	Au 32	34	18	10	1	5	60,517	
32	Boxes, wooden packing.....	58	4,747	44	102	136	27	4,438	Mh 4,707	No 4,140	4,260	4,032	194	31	3	6,513,243		
33	Brass, bronze, and copper products.....	75	1,798	46	101	118	31	1,502	My 1,663	No 1,177	1,438	1,400	27	11	.....	3,898,065	
34	Bread and other bakery products.....	2,278	14,628	2,526	203	1,119	376	10,404	.....	.....	10,606	7,998	2,492	71	45	26,455,493
35	Bakery products, other than biscuits and crackers.....	2,265	11,346	2,519	164	763	335	7,565	Oc 7,695	Ja 7,291	7,775	6,538	1,157	69	11	14,139,486		
36	Biscuits and crackers.....	13	3,282	7	39	356	41	2,839	Oc 3,042	Ja 2,488	2,831	1,460	1,335	2	34	12,316,007		
37	Brick and tile, terra-cotta and fire-clay products.....	219	7,965	232	325	215	42	7,151	.....	.....	8,199	5,174	5	20	.....	25,223,283
38	Building brick.....	117	5,049	104	193	126	18	4,608	Au 6,079	Fe 3,143	5,388	5,371	.....	17	.....	16,696,915
39	Sewer pipe and drain tile.....	86	1,670	124	71	36	10	1,429	Je 1,704	Fe 1,052	1,634	1,630	1	3	.....	4,710,537	
40	Fire brick, stove lining, and tile, other than drain tile.....	6	426	3	20	14	5	384	Jy 452	No 300	375	371	4	.....	.....	1,369,578
41	Architectural and fireproofing terra cotta.....	10	820	1	41	39	9	730	Jy 839	Fe 536	802	802	.....	.....	.....	2,446,253
42	Brooms.....	65	787	71	22	38	10	646	.....	.....	660	504	145	6	5	664,822
43	From broom corn.....	60	774	66	22	38	10	638	Mh 670	Au 602	650	497	142	6	5	649,180		
44	All other.....	5	13	5	.....	.....	.....	8	Ja 4	10 Mh 4	10	7	3	.....	.....	15,642
45	Brushes.....	32	472	28	25	10	14	395	Mh 431	De 353	348	233	102	8	5	857,991		
46	Butter.....	186	816	109	92	58	65	492	Je 551	Ja 444	503	462	40	1	.....	1,862,443	
47	Buttons.....	31	783	42	18	19	8	696	Fe 819	Au 595	756	577	165	6	8	504,873		
48	Canning and preserving, fish.....	3	12	3	.....	.....	.....	9	(*)	9	9	9	.....	.....	.....	6,542
49	Canning and preserving, fruits and vegetables.....	51	1,560	30	90	65	16	1,359	Se 3,933	Fe 354	4,238	2,976	1,255	3	4	4,230,272		
50	Card cutting and designing.....	4	139	2	7	.....	7	123	De 261	Ja 43	262	30	195	1	36	133,057	
51	Cardboard, not made in paper mills.....	3	94	.....	10	4	7	73	Je 4	79 Ja 65	72	41	30	1	.....	166,511
52	Carpets, rag.....	57	361	59	14	27	14	247	My 298	Ja 205	240	188	44	8	.....	159,307	
53	Carriage and wagon materials.....	24	648	18	20	18	6	586	Fe 694	No 498	533	529	4	.....	.....	1,558,911
54	Carriages and sleds, children's.....	8	281	2	18	10	10	241	Ja 316	Au 200	248	222	26	.....	.....	409,042
55	Carriages, wagons, and repairs.....	272	5,447	297	131	327	417	4,275	.....	.....	4,173	4,106	66	1	.....	24,924,638
56	Carriages and wagons.....	233	5,332	248	130	327	416	4,211	Mh 4,678	No 3,750	4,109	4,042	66	1	.....	24,756,159	
57	Repair work only.....	39	115	49	1	.....	1	64	Se 68	Ja 59	64	64	.....	.....	.....	168,479
58	Cars and general shop construction and repairs by electric-railroad companies.....	43	2,081	.....	64	171	33	1,813	Mh 2,090	No 1,589	1,704	1,699	5	.....	.....	5,941,982
59	Cars and general shop construction and repairs by steam-railroad companies.....	94	30,484	.....	504	1,214	84	28,682	Se 30,231	Ap 27,312	28,050	28,027	19	4	.....	34,676,821
60	Cars, steam-railroad, not including operations of railroad companies.....	23	19,101	.....	215	811	75	18,000	Au 21,460	Ap 15,057	21,035	20,972	63	.....	.....	40,308,714
61	Cash registers and calculating machines.....	10	676	2	18	125	17	514	Ja 721	Oc 226	560	553	7	.....	.....	2,151,659
62	Cement.....	6	1,632	.....	32	101	32	1,467	Jy 1,621	De 1,257	1,407	1,407	.....	.....	.....	8,188,252
63	Charcoal, not including operations in the lumber industry.....	4	34	8	5	.....	.....	21	Ja 4	22 Au 4	20	22	.....	.....	.....	72,194
64	Cheese.....	47	160	67	7	1	.....	85	My 4	98 Fe 68	93	89	4	.....	.....	242,763

1 Owned power only.

2 Includes rented power, other than electric.

3 No figures given for reasons stated under "Explanation of terms."

MANUFACTURES—ILLINOIS.

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OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horse-power generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).		
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																
\$51,257,820	\$77,219,765	\$340,910,325	\$18,864,010	\$15,022,905	\$60,913,082	\$1,288,755,811	\$51,427,596	\$2,247,322,819	\$907,139,412	1,305,930	947,949	73,009	12,310	272,662	408,812	1
1,276,837	2,357,118	15,668,157	41,868	20,606	649,647	31,825,057	1,052,504	65,337,663	32,460,102	50,044	35,860	447	1,143	12,594	23,609	2
16,160	20,658	75,240	1,000	15,080	837	184,629	1,556	348,319	162,134	31				31		3
14,678	11,141	28,130		6,171	147	25,463	553	103,221	77,205	16				16		4
85,518	27,352	781,057	3,785	30,231	8,964	1,071,416	26,059	2,664,575	1,567,100	1,826	312	871		643		5
41,886	29,127	48,875		3,942	1,438	376,851	1,833	564,944	186,260	49		17		32		6
27,929	10,981	50,588		5,160	1,568	139,772	8,578	316,100	167,750	269				269		7
214,216	209,021	869,570	2,263	104,853	16,639	1,228,293	51,530	3,384,742	2,104,919	1,862	317	178		1,367	20	8
173,409	334,886	1,076,542	600	49,420	19,084	4,960,681	47,929	7,633,420	2,624,810	1,559	210			1,349		9
49,561	33,812	628,536	6,752	84,775	7,656	511,964	42,425	1,861,981	1,307,592	853	55	324		474	17	10
47,761	33,652	618,507	6,752	82,791	7,590	506,554	41,750	1,830,844	1,282,540	841	55	322		464	17	11
1,800	160	10,029		1,984	66	5,410	675	31,137	25,052	12		2		10		12
50,877	39,071	240,815	4,107	37,929	3,017	805,371	7,585	1,550,130	737,174	255	5	5	2	243		13
122,034	71,283	154,553		34,140	16,836	4,263,311	32,883	5,143,492	847,298	1,117	955			162	359	14
33,453	10,951	22,435		3,480	1,124	373,121	4,006	527,446	150,319	96				96		15
88,581	60,332	132,118		30,660	15,712	3,890,190	28,877	4,616,046	696,979	1,021	955			66	359	16
41,310	24,603	140,645	503	20,444	4,323	2,319,557	6,497	2,876,238	550,184	292	125			187	149	17
308,976	325,893	383,168		152,260	41,616	3,368,971	97,722	8,454,936	4,988,243	3,022	2,724	15		283	1,572	18
	312	22,979	50	2,216	455	22,645	555	75,851	52,651	21				21		19
67,596	90,180	128,806		27,517	2,167	975,113	2,702	1,404,769	626,964	136	70			66	8	20
8,400	4,854	17,033		4,156	157	62,023	1,532	77,316	13,761	17		5		12		21
23,620	72,633	83,845	43	8,080	3,329	356,126	5,155	641,456	280,175	227	98	20		109	6	22
852	398	8,284		1,186	142	13,599	266	33,532	19,667	1				1		23
215,547	158,395	1,433,614	9,923	175,107	12,577	1,533,253	39,126	4,283,787	2,711,408	1,228		15		1,213		24
26,858	9,463	185,958		16,900	2,544	1,146,136	4,426	1,498,342	347,780	146	100			46		25
1,500		2,497		1,148	10	7,765	140	17,380	9,475	2				2		26
273,624	439,576	3,184,622	6,609	110,079	161,147	10,924,989	57,556	16,891,626	5,909,081	3,286	2,258	80	1	947	1,209	27
39,346	26,148	165,396	50	19,273	2,067	289,721	8,203	671,594	373,670	281	40	21		220		28
367,969	416,805	2,158,470	2,426	186,666	38,402	5,044,431	128,236	9,740,786	4,568,119	5,600	2,031	113	1,300	2,166	982	29
366,816	416,058	2,142,336	2,426	185,154	38,310	5,007,071	127,245	9,655,031	4,520,715	5,580	2,031	113	1,300	2,136	982	30
1,153	747	16,134		1,612	92	37,360	991	85,755	47,404	20				20		31
261,221	194,736	2,387,127	4,121	96,449	53,920	6,182,729	32,021	10,229,001	4,014,251	10,720	9,813	90		817	659	32
254,190	165,302	1,108,899	21,920	75,456	22,098	5,110,461	129,950	7,570,456	2,330,045	2,698	200	298	100	2,100	163	33
485,613	1,389,342	6,828,138	11,590	824,297	200,870	22,763,489	875,352	45,250,090	21,611,189	9,465	3,016	502	1	5,946	1,745	34
356,706	986,812	5,521,147	11,590	740,860	134,447	17,294,302	761,372	33,354,593	15,298,919	7,239	1,611	502	1	5,125	1,008	35
128,907	402,530	1,306,991		83,437	66,423	5,469,187	114,010	11,895,467	6,312,270	2,226	1,405			821	737	36
584,025	290,592	5,218,662	232,008	58,303	96,796	1,368,372	2,232,728	12,434,328	8,833,228	42,397	36,575	318	5	5,499	2,435	37
361,641	171,014	3,635,654	210,990	49,156	69,669	703,359	1,585,759	8,318,419	6,029,301	29,689	25,779	162	5	3,743	2,116	38
96,674	39,667	811,100	392	2,884	14,004	265,606	384,737	2,124,750	1,474,407	8,916	8,010	156		750	144	39
55,675	23,686	269,375	660	100	6,578	287,371	123,099	862,543	452,073	1,591	1,200			391		40
70,035	46,325	502,533	19,966	6,163	6,545	112,036	139,133	1,128,616	877,447	2,201	1,586			615	175	41
34,480	51,741	318,124	2,933	12,743	3,948	810,210	9,612	1,533,248	713,426	387	129	64		194		42
34,480	51,741	314,024	2,783	11,279	3,651	803,036	9,377	1,514,436	702,023	381	129	64		188		43
		4,100		1,464	207	7,174	235	18,812	11,408	6				6		44
53,370	20,665	230,382	4,921	15,981	4,497	604,701	14,354	1,156,397	537,342	267	75	52		140		45
111,784	75,411	326,981	15,550	36,613	10,278	6,595,048	66,514	8,150,539	1,188,977	2,977	2,199	110		668	19	46
35,532	23,766	324,551	3,611	13,010	1,545	292,681	11,962	765,149	460,516	476	240	27		209		47
		4,894		420	52	23,370	700	38,477	14,407							48
167,547	59,757	564,769	20,219	14,827	20,158	2,994,886	51,856	4,557,963	1,511,221	4,061	3,026	160		875	196	49
13,012	4,839	56,976		2,620	520	35,666	1,555	167,096	129,875	58				58		50
21,970	9,958	40,542		10,400	607	109,356	2,481	214,884	109,047	135				135		51
18,063	25,848	139,784	1,294	14,861	1,195	71,931	8,461	358,742	278,350	290	4	47		239		52
39,852	25,208	360,135	2,578	13,328	9,129	784,156	19,479	1,418,984	615,349	1,955	1,743	43		169		53
36,740	13,760	149,093		17,380	1,219	231,765	4,944	531,705	294,996	195	100			95		54
334,491	452,315	3,044,688	39,098	135,127	106,364	7,398,442	166,300	13,773,482	6,208,740	10,330	5,604	231	300	4,195	3,046	55
332,991	451,715	2,992,918	38,808	127,047	104,696	7,341,898	163,010	13,602,640	6,098,032	10,192	5,604	202	300	4,086	3,046	56
1,500	600	51,770	200	8,080	1,668	56,544	3,290	170,542	110,708	138		29		109		57
71,468	161,587	1,386,815	113	8,961	22,817	1,452,948	74,508	3,181,375	1,653,919	1,845	600			1,245	223	58
696,215	1,171,341	20,432,816	63,879	3,840	274,735	17,286,738	1,031,726	41,496,130	23,177,666	36,781	25,195	169		11,417	15,807	59
577,780	966,058	15,685,651		33,660	209,526	39,773,640	655,127	61,315,638	20,886,871	37,622	30,336	4,440	55	2,791	25,736	60
104,844	347,657	350,111		22,948	15,979	85,828	14,059	1,368,158	1,268,271	587	354			233	252	61
242,021	187,421	1,184,492		32,953	26,414	1,927,325	932,142	6,467,707	3,608,240	23,986	21,118	16		2,852	15,377	62
5,056		10,005	5,900	835	287	50,707	1,800	74,993	22,486	50	50					63
8,575	1,300	61,517	12	3,383	639	773,083	8,661	883,977	102,233	469	390	79				64

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	Chemicals.....	26	1,906	3	59	118	44	1,682	Mh	1,765	Je	1,622	1,682	1,660	20	2	\$8,842,612		
2	China decorating, not including that done in potteries.	11	78	13	1	9	9	46	Se	51	De	36	36	26	10	.....	116,428	
3	Cleansing and polishing preparations	53	226	55	19	30	22	100	.....	.....	.....	.....	108	86	21	1	363,338	
4	Cleansing preparations.....	16	57	17	3	8	4	25	De	30	My	21	32	20	11	1	49,317		
5	Polishing preparations.....	37	169	38	16	22	18	75	Au	82	De	70	76	66	10	.....	314,021	
6	Cloth, sponging and refinishing.....	7	138	6	5	.....	4	123	Au	126	No ^a	120	120	113	1	6	28,365	
7	Clothing, men's.....	578	39,997	464	562	2,906	1,913	34,152	.....	.....	.....	.....	34,365	15,874	17,900	171	420	39,083,039
8	Regular factories—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9	Men's and youths'.....	217	30,807	23	500	2,671	1,789	25,824	Fe	26,894	No	24,799	25,509	12,461	12,733	102	213	35,954,078	
10	Boys'.....	6	1,247	8	28	193	78	940	Ja	1,030	Ap	888	968	388	555	5	20	1,950,734	
11	All other.....	4	163	1	8	1	3	150	Je	163	De	140	142	30	109	1	2	175,095	
12	Contract work—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13	Men's and youths'.....	340	7,498	417	24	40	41	6,976	Ap	7,300	Ja	6,501	7,468	2,860	4,370	61	177	965,955	
14	Boys' and all other.....	11	282	15	2	1	2	262	Au	300	Ap	226	278	135	133	2	8	30,577	
15	Clothing, men's, buttonholes.....	6	12	6	.....	.....	.....	6	My ^a	7	Ja ^a	4	7	3	4	.....	.....	4,000
16	Clothing, women's.....	241	9,590	273	265	514	425	8,113	.....	.....	.....	.....	8,377	2,588	5,662	9	118	6,674,493
17	Regular factories—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18	Suits, skirts, and cloaks.....	111	4,124	134	125	308	218	3,339	Oc	4,100	Je	2,635	3,442	1,774	1,658	3	7	3,340,385	
19	Shirt waists and dresses, except house dresses.	40	2,198	42	53	69	97	1,932	Oc	2,145	Jy	1,633	1,944	315	1,570	2	57	1,181,398	
20	Undergarments and petticoats.....	13	511	13	26	22	16	434	Mh	493	Au	371	413	41	365	2	5	470,725	
21	Wrappers and house dresses.	19	1,454	16	33	72	68	1,265	Mh	1,379	Jy	1,104	1,356	140	1,181	2	33	1,006,984	
22	All other.....	32	725	37	23	35	23	607	Je	683	Ja	521	643	65	566	.....	12	503,248
23	Contract work—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24	Suits, skirts, and cloaks.....	16	329	17	3	.....	.....	309	Au	396	Ja	231	336	195	141	.....	.....	29,540
25	Shirt waists, dresses, wrappers, and all other.....	10	254	14	2	8	3	227	Ap	250	Ja	200	243	58	181	.....	4	76,213
26	Coffee and spice, roasting and grinding.....	34	1,963	18	87	567	98	1,193	.....	.....	.....	.....	1,115	635	478	2	.....	8,158,982
27	Coffee.....	31	1,865	18	80	564	95	1,108	Au	1,258	Ja	1,015	1,035	603	431	1	.....	7,994,733
28	Spice.....	3	98	7	3	3	3	85	Se	107	Ja	71	80	32	47	1	.....	164,249
29	Coffins, burial cases, and undertakers' goods.	21	988	7	43	123	13	802	Fe	853	De	764	769	595	171	1	2	2,846,445	
30	Coke, not including gas-house coke.....	3	1,283	.....	18	78	9	1,178	Ja	1,615	No	804	831	831	.....	.....	.....	11,204,654
31	Condensed milk and milk products, other than butter and cheese.	34	1,393	2	50	140	23	1,178	Jy	1,264	Ja	1,081	1,097	926	161	3	7	6,229,238	
32	Confectionery and ice cream.....	332	7,378	313	270	576	390	5,829	.....	.....	.....	.....	6,388	2,978	2,996	19	395	11,618,669
33	Confectionery and chewing gum.	147	6,127	104	178	494	342	5,009	Oc	5,929	Jy	4,399	5,533	2,171	2,950	17	395	8,398,637	
34	Ice cream.....	185	1,251	209	92	82	48	820	Au	1,139	Ja	555	855	807	46	2	.....	3,220,032
35	Cooperage.....	51	1,966	27	81	35	17	1,806	.....	.....	.....	.....	1,844	1,832	5	7	.....	4,106,034
36	Hogsheads and barrels.....	48	1,780	27	73	33	16	1,631	Oc	1,792	Je	1,415	1,686	1,674	5	7	.....	3,591,800
37	All other.....	3	186	.....	8	2	1	175	Jy	219	No ^a	149	158	158	.....	.....	.....	514,284
38	Copper, tin, and sheet-iron work.....	454	3,455	494	176	187	108	2,490	Au	2,659	Fe	2,253	2,515	2,474	25	15	1	5,504,517	
39	Cordials and flavoring sirups.....	9	82	4	14	17	5	42	Je	71	No	31	37	32	5	.....	.....	420,540
40	Corsets.....	19	2,253	12	39	114	114	1,974	Mh	2,137	De	1,708	1,880	178	1,622	4	76	1,870,827	
41	Cutlery and edge tools.....	16	573	15	11	16	15	516	Oc	586	Jy	297	537	461	65	10	1	933,762	
42	Dairymen's, poultrymen's, and apiarists' supplies.	32	773	33	34	34	34	638	.....	.....	.....	.....	670	628	38	4	.....	1,640,154
43	Incubators and brooders.....	7	202	3	8	6	8	177	Fe ^a	259	Se	102	202	195	5	2	.....	309,834
44	Other poultrymen's supplies and apiarists' supplies.	15	202	21	9	11	9	152	Mh	179	Oc	123	159	132	27	.....	.....	327,653
45	Dairymen's supplies, including cream separators.	10	369	9	17	17	17	309	My	360	Au	263	309	301	6	2	.....	1,002,667
46	Dental goods.....	11	163	6	10	12	31	104	Fe ^a	112	Oc	98	100	79	11	10	.....	71,037
47	Druggists' preparations.....	38	684	20	47	149	110	358	My ^a	371	Ja	340	362	232	129	1	.....	1,909,343
48	Dyeing and finishing textiles, exclusive of that done in textile mills.	8	300	5	8	10	9	268	Mh	302	Jy	222	291	182	104	1	4	579,231	
49	Electrical machinery, apparatus, and supplies.	142	20,485	49	553	2,634	766	16,483	Ja	18,186	De	14,018	14,084	11,097	2,943	34	10	34,944,881	
50	Electroplating.....	46	494	56	26	6	8	398	Je	424	Ap	357	395	353	30	11	1	343,044	
51	Emery and other abrasive wheels.....	5	65	3	7	10	4	41	Ap ^a	47	Ja ^a	37	39	36	3	.....	.....	115,348
52	Engines, steam, gas, and water.....	30	2,130	15	53	155	47	1,860	Fe	2,059	Se	1,548	1,997	1,990	6	1	.....	9,953,961
53	Engravers' materials.....	3	53	.....	7	5	6	35	De	36	Ja	34	36	36	.....	.....	.....	129,886
54	Engraving and diesinking.....	31	421	35	9	31	8	338	Au	354	No	326	332	309	11	12	.....	698,861
55	Engraving, steel and copper plate, including plate printing.	48	1,723	40	75	103	80	1,425	De	1,470	Mh	1,354	1,472	1,040	347	40	45	2,864,796	
56	Engraving, wood.....	12	262	8	12	41	11	190	Jy	221	Fe	173	193	191	2	.....	.....	143,589
57	Envelopes.....	19	1,307	6	53	92	66	1,090	Mh	1,130	Je	1,048	1,104	444	640	7	13	2,190,472	
58	Explosives.....	9	477	.....	24	63	24	366	Se	403	My	327	362	361	.....	1	.....	2,855,036
59	Fancy articles, not elsewhere specified.	43	851	38	52	100	46	615	.....	.....	.....	.....	614	245	361	5	3	1,230,095
60	Beadwork.....	3	11	4	.....	.....	1	6	Fe ^a	8	Ja ^a	5	5	1	4	.....	.....	6,425
61	Metal and paper novelties.....	18	310	11	24	22	17	236	Oc	285	Ja	187	267	135	130	1	1	335,133	
62	Celluloid, wood, and other novelties.	22	530	23	28	78	28	373	Se	453	Ja	314	342	109	227	4	2	888,537	

^a Owned power only.^a Includes rented power, other than electric.

MANUFACTURES—ILLINOIS.

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OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.										Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.				For contract work.	Rent and taxes.		For materials.		Primary horsepower.					Electric power generated in establishments reporting.			
Officials.	Clerks, etc.	Wage earners.			Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.	Total.			Steam engines. ¹	Internal-combustion engines. ²		Water wheels and motors. ¹	Electric (rented).	
\$167,353 2,580	\$185,533 24,763	\$1,164,006 35,702	\$360	\$13,129 5,084	\$42,323 779	\$4,983,029 38,770	\$377,390 1,920	\$8,618,118 156,020	\$3,257,699 115,330	8,590 3	6,941	320	1,329 3	5,117 2			
47,166 3,466 43,700 9,113	59,586 6,166 53,420 2,028	56,784 13,275 43,509 86,005	2,630 1,830 800	17,437 6,065 10,772 14,970	2,318 369 1,949 300	352,866 41,366 311,500 400	4,596 963 3,633 1,632	662,630 58,446 561,855 159,895	305,168 58,446 246,722 157,863	102 34 68 35	12 12		90 22 68 35	3 4 5 6			
2,278,700	4,678,088	19,578,872	5,381,862	1,386,584	189,171	40,185,091	318,133	87,512,126	47,008,902	4,828	805	50	3,973	454	7		
2,139,059 75,424 20,280	4,386,056 231,557 6,680	15,301,430 612,000 70,238	5,102,186 159,905	1,193,862 53,611 7,746	174,217 4,969 349	37,970,437 1,717,983 356,182	238,727 11,590 2,198	78,640,488 3,404,012 513,646	40,431,324 1,674,439 155,266	3,944 112 29	805	20	3,119 112 29	454 9 10	8 9 10		
39,867 4,070	51,845 1,950	3,497,798 97,406	119,771	126,913 4,452	9,358 278	137,119 3,370	62,566 3,052	4,819,641 134,339	4,619,956 127,917	703 40		30	673 40	11 12			
		3,248		480	24	721	340	8,931	7,870	6			6	13			
587,108	724,755	4,530,374	329,009	441,094	26,514	11,138,900	80,296	20,750,550	9,531,354	1,163			1,163	5	14		
288,707 133,193	431,133 119,448	2,280,342 1,074,040	325,242 3,317	229,727 99,994	10,019 5,708	6,334,147 1,917,346	33,553 16,801	11,385,179 3,957,165	5,017,479 2,023,018	353 280			353 280	15 5	16		
54,668	39,978	236,284		25,803	1,504	825,468	5,679	1,325,676	494,529	113			113		17		
50,824 53,536	84,798 36,526	416,252 241,518		45,484 25,377	1,964 6,762	1,169,728 783,564	11,768 6,005	2,211,322 1,365,709	1,029,826 576,140	231 113			231 113		18 19		
5,400 780		187,648 94,290		7,050 7,659	183 374	5,059 103,588	3,230 3,260	243,742 261,757	235,453 154,909	32 41			32 41	20 21			
297,455	1,050,176	575,985	400	149,234	53,622	17,020,501	73,089	22,044,588	4,950,998	3,152	1,375	169	1,608	1,125	22		
284,955 12,500 124,935	1,043,604 6,572 240,054	537,189 38,796 527,067	400 1,190	141,352 7,882 30,134	52,859 763 16,230	16,583,136 437,315 1,283,919	64,977 8,112 23,552	21,494,545 550,043 2,705,983	4,846,382 104,616 1,397,912	2,923 229 1,359	1,320 55 817	169 61	1,434 174 481	1,125 24 139	23 24 25		
60,885 129,131	114,869 162,119	942,432 690,052		4,167 4,463	45,612 56,743	320,677 10,268,957	5,507,499 223,369	7,840,247 12,757,704	2,012,071 2,265,378	13,054 2,738	7,780 2,578		5,274 42	6,809 379	26 27		
736,740 595,035 141,705 109,705 178,554 21,151 353,785 30,130	932,011 818,265 113,746 52,105 49,024 3,081 263,747 24,769	2,870,980 2,255,483 615,497 1,041,895 938,419 103,476 1,973,139 24,009	11,700 10,127 1,573 6,993 6,993 26,804 63,074	337,683 260,432 77,251 26,804 26,804 2,728 179,042 10,781	195,113 176,373 18,740 26,841 24,113 2,728 32,442 8,234	14,601,640 11,899,693 2,701,947 4,435,895 3,065,981 469,914 3,940,595 807,449	303,497 194,940 108,557 39,277 38,436 841 65,788 1,218	27,061,002 22,138,559 4,922,443 6,336,556 5,649,686 686,870 8,299,150 2,015,860	12,155,865 10,043,926 2,111,939 1,861,384 1,645,269 216,115 4,292,767 1,207,193	10,091 5,343 4,748 4,458 4,058 400 2,396 659	4,104 3,444 660 4,221 3,821 400 776 625	991 150 841 841 237 400 110	19 19	4,977 1,749 3,228 237 237 86 1,510 34	3,111 2,478 633 122 126 33 297 8	28 29 30 31 32 33 34 35	
148,200 36,374 72,125	248,758 29,873 55,328	715,439 233,434 389,543		46,704 4,209 17,281	8,552 3,697 10,186	2,043,692 219,350 1,072,042	19,101 14,022 22,042	3,978,882 681,233 2,307,367	1,916,189 447,861 1,213,283	341 715 886	50 580 295		291 120 482		36 37 38		
17,080 14,520	9,910 20,627	93,220 78,533		3,315 7,376	1,167 1,549	265,045 465,807	4,661 4,189	454,092 754,787	184,386 284,791	295 205			230 127		39 40		
40,525	24,791	217,790	5,000	6,590	7,470	341,190	13,192	1,098,488	744,106	386	255	6	125	94	41		
19,965 122,977	19,795 286,863	71,568 234,356	200 9,589	9,300 27,780	338 12,148	128,212 717,149	2,508 19,559	296,680 2,000,494	165,960 1,263,788	41 786		6 43	35 90		42 43		
18,544	13,104	149,237	1,057	900	4,642	178,345	29,449	504,199	296,405	476	379		97	42	44		
1,489,069	3,305,234	12,365,964	40,288	353,623	363,233	19,060,369	318,795	45,667,456	26,288,292	21,140	17,232	258	3,525	14,487	45		
39,661 10,380 124,300	10,412 12,219 204,948	291,227 41,416 1,412,171		36,657 5,040 20,578	1,269 665 41,813	340,075 64,645 1,757,280	17,147 2,213 84,658	864,976 194,383 3,948,730	507,754 127,525 2,106,792	990 57 2,891	450 1,196	84 242	456 57 1,343	73 47 856	46 47 48		
20,450 27,390 207,000	10,104 32,185 195,241	27,776 267,247 933,964		6,021 25,756 78,813	958 3,439 12,896	237,768 204,530 869,685	4,111 10,913 32,796	339,390 815,552 3,161,467	97,511 600,109 2,258,986	185 218 1,305			185 147 554		49 50 51		
58,233 131,632	44,294 155,374	238,249 568,325	3,674 3,972	14,069 51,138	403 8,604	66,492 1,405,908	1,101 23,992	490,224 2,887,406	422,631 1,457,506	13 821			13 739		52 53		
71,420 80,801	123,513 216,819	193,905 412,686	903 18,855	1,500 43,850	9,668 2,355	1,618,640 1,101,126	36,542 15,608	2,581,762 2,201,158	926,580 1,084,424	2,083 384	2,077	6 43		1,350 54	54 55		
	365	2,247	300	978	21	6,297	49	13,300	6,954	1			1		56		
38,285 42,516	33,742 182,712	122,751 287,688	17,335 1,220	15,858 27,014	1,344 990	277,692 817,137	7,817 8,242	617,291 1,570,567	332,282 745,188	277 106		40 3	237 103		57 58		

* Same number reported for one or more other months.

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				16 and over.		Under 16.					
						Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.					
									Maximum month.	Minimum month.									
1	Feathers and plumes.....	4	42	2	3	1	1	35	Ap ^a	39	Ja	26	37	6	30	1	\$19,898		
2	Fertilizers.....	12	873	5	45	111	16	696	Se	837	Oc	550	588	588			2,759,270		
3	Flags and banners.....	8	156	4	11	9	7	125	De	155	Fe	102	155	26	80	49	114,155		
4	Flavoring extracts.....	27	294	16	33	61	40	144	My	173	De	117	122	74	47	1	824,106		
5	Flour-mill and gristmill products.....	406	3,569	458	254	355	104	2,398	Au	2,490	Ja	2,297	2,530	2,513	14	3	19,474,726		
6	Food preparations, not elsewhere specified.....	115	2,593	108	122	423	150	1,790					1,948	1,347	584	7	6,969,391		
7	Breadstuff preparations, cereals, and table foods.....	12	286	6	9	57	10	204	Au	247	Fe	149	234	146	86	1	1,040,172		
8	Macaroni, vermicelli, and noodles.....	16	491	40	18	52	13	368	Mh	404	My	319	370	233	127	3	800,678		
9	Lard compounds and meat products.....	11	249	8	17	27	10	187	Au	245	Ja	153	188	112	73	1	714,610		
10	Sausage casings.....	7	247	7	2	12	1	225	Ja	235	Mh	207	230	149	81		93,955		
11	Other preparations, for human consumption.....	51	800	36	50	154	68	492	Oc	630	Ja	417	601	384	215	2	2,254,413		
12	For animals and fowls.....	18	520	11	26	121	48	314	Se	363	No	272	325	323	2		2,065,657		
13	Foundry and machine-shop products.....	821	44,249	489	1,730	3,877	1,023	37,130					33,952	32,991	779	148	34	116,539,659	
14	Boiler shops.....	13	111	18	3	5	2	83	Jy ^a	94	No ^a	77	81	80	1		127,741		
15	Foundries.....	79	13,394	36	323	1,181	86	11,768	Au	12,392	De	10,472	10,636	10,333	274	29	24,912,034		
16	Machine shops.....	729	30,744	435	1,404	2,691	935	25,279	Mh	27,175	De	22,476	23,235	22,578	504	119	91,499,834		
17	Foundry supplies.....	7	142	7	10	22	15	95	Mh	100	De	90	93	93			489,030		
18	Fur goods.....	84	479	71	35	44	29	300	No	444	Ap	188	430	236	189	2	1,086,049		
19	Furnishing goods, men's.....	44	2,465	42	42	209	94	2,078	Mh	2,174	Je	1,939	2,167	324	1,763	15	65	2,843,280	
20	Furniture.....	274	15,268	186	543	835	354	13,350					13,230	12,800	291	131	8	26,475,505	
21	Wood, including rattan and willow.....	175	11,669	124	370	504	231	10,440	Mh	10,872	Jy	9,872	10,500	10,135	233	125	7	20,660,405	
22	Metal.....	25	1,166	12	57	78	33	986	Mh	1,091	De	915	923	901	19	3	2,021,416		
23	Store and office fixtures.....	74	2,433	50	116	253	90	1,924	My	2,089	De	1,713	1,807	1,764	39	3	3,793,694		
24	Furs, dressed.....	3	52	1	5	3	1	42	No	48	Mh	37	44	38	6		27,846		
25	Galvanizing.....	8	122	12	9	5	2	94	Fe	105	Ja	83	89	89			189,550		
26	Gas and electric fixtures.....	55	2,131	31	101	202	87	1,710					1,741	1,431	271	33	6	3,773,091	
27	Gas fixtures.....	14	400	14	23	26	18	319	Fe	394	Se	273	311	311	224	2	4	782,767	
28	Electric fixtures.....	30	1,565	10	64	160	52	1,279	Ja	1,364	Au	1,201	1,300	1,226	43	29	2	2,602,919	
29	All other.....	11	166	7	14	16	17	112	Ja	133	Jy	100	130	124	4	2		387,405	
30	Gas, illuminating and heating.....	75	6,256	254	1,999	113	25	3,890	My	4,507	Ja	3,353	3,464	3,464				169,528,184	
31	Gas machines and gas and water meters.....	17	392	4	30	134	25	199					194	189	5			1,552,338	
32	Gas machines.....	10	89	2	10	5	4	68	Au ^a	72	Mh	61	76	71	5			140,098	
33	All other.....	7	303	2	20	129	21	131	Jy	140	De	118	118	118				1,412,210	
34	Glass.....	10	4,038	3	68	159	44	3,764	Ja	4,337	Se	2,694	4,028	3,859	159	9	1	11,487,541	
35	Glass, cutting, staining, and ornamenting.....	56	1,100	39	62	54	34	911	De	951	Jy	871	974	828	111	27	8	1,079,519	
36	Gloves and mittens, leather.....	28	1,530	30	48	43	38	1,371	Ja	1,460	De	1,270	1,282	581	652	6	43	2,048,149	
37	Glue, not elsewhere specified.....	9	1,195	6	11	189	21	968	Ap	1,060	No	901	928	844	84			5,552,170	
38	Gold, leaf and foil.....	6	166	2	14	4		146	No	160	Je ^a	136	156	72	67	7	10	87,430	
39	Grease and tallow, not including lubricating greases.....	39	971	34	35	101	29	772					801	773	25	3		3,344,472	
40	Soap stock.....	11	213	8	10	11	2	182	Se	312	My	141	246	246				867,389	
41	Tallow.....	21	733	19	24	90	27	573	Ap	600	No	536	538	510	25	3		2,387,202	
42	All other.....	7	25	7	1			17	Ap ^a	19	Mh ^a	15	17	17				89,881	
43	Hairwork.....	27	240	19	13	10	22	178	Se	203	De	149	162	31	130	1		378,779	
44	Handstamps.....	25	276	21	20	38	19	178	My	191	Se	165	174	131	38	5		393,678	
45	Hardware.....	80	4,750	35	174	343	163	4,035					3,824	3,417	364	38	5	10,990,575	
46	Locks, hinges, and other builders' hardware.....	23	1,898	7	44	145	51	1,651	Au	1,685	De	1,596	1,602	1,428	152	17	5	3,995,365	
47	All other.....	57	2,852	28	130	198	112	2,384	Fe	2,657	De	2,211	2,222	1,989	212	21		6,995,210	
48	Hat and cap materials.....	3	12	2		1	1	8	(*)	8	(*)	8	8		6			5,664	
49	Hats and caps, other than felt, straw, and wool.....	36	564	46	23	20	10	465	Je	496	Ja	393	458	316	137	5		288,116	
50	Hats, fur-felt.....	9	57	8	5	1		43	Ap	49	De	38	40	20	20			55,759	
51	Hats, straw.....	7	82	13	2	1	1	65	Je	117	Au ^a	48	64	38	26			101,255	
52	Hats, wool-felt.....	5	34	6	4	3	3	18	Ap ^a	20	Ja ^a	16	18	16	2			18,555	
53	Horseshoes, not made in steel works or rolling mills.....	3	50		5	7	3	35	Oc	40	Mh ^a	31	37	37				203,498	
54	Hosiery and knit goods.....	46	3,783	22	89	65	72	3,535	De	3,656	Au	3,308	3,683	1,150	2,449	11	73	7,713,754	
55	House-furnishing goods, not elsewhere specified.....	46	732	41	47	55	83	506					512	242	250	6	14	1,384,441	
56	Comforts, quilts, feather pillows, and beds.....	8	149	7	10	21	1	110	Fe	118	De	102	103	72	30	1		452,289	
57	Mops and dusters.....	16	306	11	18	21	69	187	Ap	217	Au	134	181	77	98	1	5	564,325	
58	All other.....	22	277	23	19	13	13	209	Au	230	Ap	177	228	93	122	4	9	387,827	
59	Ice, manufactured.....	128	1,641	36	166	92	35	1,312	Jy	1,874	Ja	901	1,279	1,279				8,212,344	
60	Ink, printing.....	9	83	7	10	12		54	Se	56	Ja ^a	53	55	50	1	4		363,202	
61	Instruments, professional and scientific.....	30	1,411	21	44	133	109	1,104					1,023	776	239	4	4	2,808,749	
62	Medical, surgical, and optical.....	12	173	7	14	11	6	135	No	144	Je	127	143	140	1	2		258,268	
63	All other.....	18	1,238	14	30	122	103	969	Jy	1,066	No	851	880	636	238	2	4	2,550,451	

^a Owned power only.^a Includes rented power, other than electric.

MANUFACTURES—ILLINOIS.

47

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

83,305	\$1,024	\$15,557	-----	\$2,535	\$84	\$21,451	\$330	\$59,783	\$38,002	1	-----	-----	-----	-----	-----	1
133,456	156,324	397,663	\$3,102	51,503	16,203	2,239,930	115,797	3,775,287	1,425,560	3,739	1,196	-----	-----	-----	2,543	343
12,666	8,929	56,040	1,550	12,265	204	128,651	1,302	288,820	158,867	25	-----	-----	-----	-----	25	3
74,625	88,102	82,562	-----	26,532	3,959	681,191	8,439	1,400,777	711,147	260	90	82	-----	-----	138	4
519,045	462,812	1,456,410	3,138	44,934	120,943	42,480,475	351,432	49,493,224	6,652,317	35,793	30,086	1,914	750	3,043	902	5
303,995	555,521	1,006,244	7,125	118,950	46,855	12,530,308	170,885	17,620,136	4,868,943	7,772	4,457	488	340	2,487	988	6
23,461	60,160	108,111	-----	7,559	3,570	848,475	28,764	1,538,389	661,150	1,188	593	87	-----	-----	508	7
40,457	36,549	165,890	1,000	24,156	2,928	699,469	31,117	1,278,183	547,597	966	505	14	-----	-----	447	8
45,830	56,383	88,862	-----	13,333	8,139	2,258,316	12,098	2,794,533	524,119	620	410	36	-----	-----	174	9
4,820	9,648	123,563	-----	9,450	849	328,266	7,579	595,750	259,905	107	52	-----	-----	-----	55	10
112,321	242,576	299,898	2,525	50,028	14,557	3,043,796	44,848	4,554,863	1,466,219	1,591	827	239	-----	-----	525	11
77,106	150,205	219,920	3,600	14,424	16,812	5,401,986	46,479	6,858,418	1,409,953	3,300	2,070	112	340	778	426	12
4,686,328	5,357,092	25,795,712	505,091	889,617	743,935	37,127,078	2,399,446	95,368,347	55,841,823	78,116	36,427	2,281	1,114	38,294	23,078	13
5,200	4,110	62,086	1,644	5,050	1,063	67,267	4,260	215,320	143,793	185	28	-----	-----	-----	157	14
973,101	1,427,189	7,675,931	30,227	236,529	290,682	8,669,012	1,202,980	24,819,805	14,947,813	20,658	6,174	97	259	14,128	3,101	15
3,708,027	3,925,793	18,057,695	473,220	648,038	452,190	28,390,799	1,192,206	70,333,222	40,750,217	57,273	30,225	2,184	855	24,009	19,977	16
32,555	39,548	57,875	45	4,252	2,227	204,236	16,840	404,624	183,548	1,123	700	150	-----	-----	273	17
55,150	56,708	219,053	24,108	93,115	2,227	864,415	5,428	1,680,873	735,032	141	-----	55	-----	-----	86	18
123,291	307,209	823,419	3,241	82,376	14,718	3,267,862	14,177	5,063,472	1,781,433	677	500	-----	-----	-----	177	19
1,262,880	1,193,402	8,610,514	72,197	483,177	161,182	14,736,347	380,609	31,889,569	16,772,613	25,391	17,173	2,988	-----	5,230	4,229	20
871,747	783,346	6,431,831	34,950	294,118	130,869	10,845,792	273,269	23,379,017	12,259,956	17,678	14,063	145	-----	3,470	3,397	21
133,190	116,568	663,919	141	42,753	12,033	1,630,570	40,861	2,862,460	1,191,029	1,722	940	150	-----	-----	632	22
257,943	293,488	1,514,764	37,106	146,306	18,280	2,259,985	66,479	5,648,092	3,321,628	5,991	2,170	2,693	-----	1,128	364	23
14,860	3,520	24,003	3,000	210	7,379	1,880	-----	65,336	56,077	40	-----	-----	-----	40	-----	24
21,344	7,561	58,206	213	3,180	2,190	184,508	10,958	347,144	151,678	94	25	66	-----	4	-----	25
281,071	274,278	1,149,343	22,240	110,071	16,848	2,464,204	49,567	5,059,924	2,546,153	1,890	1,120	141	120	509	430	26
57,815	38,438	138,554	3,401	7,799	4,002	527,371	16,218	951,085	407,496	178	50	24	-----	104	-----	27
192,731	207,740	924,000	17,209	86,735	11,497	1,753,391	27,272	3,665,161	1,884,498	1,553	1,070	67	120	296	430	28
30,525	28,100	86,789	1,630	15,537	1,349	183,442	6,077	443,678	254,159	159	-----	50	-----	109	-----	29
676,968	1,723,491	2,658,835	46,241	3,071	1,264,238	2,619,670	5,415,819	28,170,550	20,135,071	31,058	25,420	5,165	-----	473	600	30
81,516	169,290	149,446	2,550	4,860	7,481	367,943	5,960	1,177,778	803,875	119	15	14	-----	90	-----	31
19,160	7,738	43,887	1,450	2,616	738	96,023	1,867	195,456	124,566	59	15	14	-----	30	-----	32
62,356	161,552	105,559	1,100	2,244	6,743	298,920	4,093	982,322	679,309	60	-----	-----	-----	60	-----	33
194,402	249,627	2,692,125	1,000	58,999	1,850,693	957,157	7,680,343	4,872,493	4,872,493	9,685	7,740	975	-----	970	3,866	34
123,672	77,961	615,890	3,357	67,221	5,766	913,446	27,865	2,041,688	1,100,377	385	30	8	35	312	-----	35
80,082	51,803	645,865	740	11,210	7,729	1,666,350	20,870	2,773,887	1,086,647	797	600	4	-----	193	-----	36
80,036	178,650	614,104	-----	27,160	22,111	2,209,519	175,425	3,731,375	1,346,431	3,316	2,965	-----	-----	351	10	37
16,350	3,504	73,709	4,921	3,302	363	145,434	1,385	256,798	109,979	66	50	-----	-----	16	5	38
110,782	101,443	564,383	216	4,067	22,790	3,300,973	134,456	4,760,845	1,325,416	2,213	2,147	11	-----	55	1,617	39
22,827	13,360	129,727	-----	1,472	6,606	253,285	27,565	665,223	384,373	327	311	6	-----	10	590	40
82,455	88,083	421,801	100	2,450	15,512	3,009,852	104,985	4,009,417	894,580	1,784	1,739	5	-----	40	1,027	41
5,500	-----	12,855	116	145	672	37,336	1,906	86,205	46,463	102	97	-----	-----	5	-----	42
28,124	21,950	96,531	4,259	27,804	1,743	281,771	687	601,782	319,324	6	-----	-----	-----	6	-----	43
44,752	39,174	121,747	100	26,920	1,723	165,997	3,984	540,080	370,099	156	-----	17	-----	139	1	44
446,282	688,649	2,387,755	18,074	73,222	57,970	4,230,439	159,490	10,407,290	6,017,361	4,853	2,830	287	53	1,683	1,503	45
100,581	361,035	916,163	6,754	18,792	17,803	1,410,762	52,038	3,722,541	2,259,741	1,719	1,060	35	-----	624	601	46
345,701	327,614	1,471,592	11,320	54,430	40,167	2,819,677	107,452	6,684,749	3,757,620	3,134	1,770	252	53	1,059	902	47
-----	208	5,500	-----	1,200	14	690	139	13,400	12,571	1	-----	-----	-----	1	-----	48
34,560	21,614	304,967	-----	34,248	964	511,387	5,297	1,126,735	610,051	81	-----	-----	-----	81	-----	49
8,782	3,600	28,050	-----	4,116	192	51,185	1,513	118,069	65,371	22	-----	-----	-----	22	-----	50
3,938	1,812	41,656	-----	9,670	395	86,343	1,037	210,841	123,461	15	-----	-----	-----	15	-----	51
3,340	3,054	10,562	-----	8,136	112	24,633	535	65,044	39,876	223	-----	-----	-----	223	-----	52
12,762	7,906	31,313	-----	1,303	146,596	7,830	-----	287,352	132,026	171	-----	120	-----	51	-----	53
205,437	133,034	1,546,122	123,407	80,554	37,951	3,983,157	83,482	7,367,235	3,300,596	2,531	1,165	34	-----	1,332	480	54
140,189	204,619	253,898	24,695	45,946	9,209	1,510,295	11,930	3,079,275	1,557,050	698	475	38	-----	185	115	55
50,338	33,614	72,333	223	12,217	4,021	452,586	5,117	718,845	261,142	269	250	-----	-----	19	15	56
51,532	144,853	95,134	1,273	16,981	2,954	700,586	4,932	1,671,027	965,509	220	100	8	-----	112	-----	57
38,319	26,152	86,431	23,199	16,748	2,234	357,123	1,881	689,403	330,399	209	125	30	-----	54	100	58
221,655	83,889	969,718	3,812	14,553	57,058	367,893	637,529	3,388,862	2,383,440	26,183	20,988	244	125	4,826	1,398	59
41,147	20,507	37,690	-----	7,285	2,583	249,238	10,510	503,538	243,790	345	-----	-----	-----	345	-----	60
144,400	275,104	814,375	7,225	35,185	11,819	1,089,431	31,130	3,969,727	2,849,166	1,065	115	42	-----	908	178	61
31,545	13,571	105,084	150	13,468	2,565	97,469	2,242	332,320	232,609	114	25	20	-----	69	-----	62
112,855	261,533	709,291	7,075	21,717	9,254	991,962	28,888	3,637,407	2,616,567	951	90	22	-----	839	178	63

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
					Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
								Maximum month.	Minimum month.									
1 Iron and steel, blast furnaces.....	5	1,653	.....	57	117	29	1,450	My	1,744	No	886	1,041	1,041	.....	.....	\$51,005,551
2 Iron and steel, steel works and rolling mills.	25	17,416	.....	463	1,374	171	15,408	Mh	17,644	De	11,159	13,707	13,692	12	3	75,260,000	
3 Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.	8	519	.....	17	28	4	470	Mh	480	Je	452	473	401	72	.....	1,350,270
4 Iron and steel, doors and shutters...	9	397	1	22	38	11	325	Ja	387	Au	293	310	310	.....	.....	704,509
5 Iron and steel forgings, not made in steel works or rolling mills.	17	841	7	32	36	16	750	Au	815	No	613	697	697	.....	.....	2,000,833
6 Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.	6	282	4	11	29	9	229	Fe	233	De	224	224	168	56	.....	872,646	
7 Japanning.....	3	65	2	3	1	.....	59	My	73	De	44	50	48	2	.....	29,031
8 Jewelry.....	100	1,395	112	62	139	90	992	Ja	1,024	Jy	948	1,006	877	116	13	2,420,110		
9 Jewelry and instrument cases.....	8	254	5	9	2	4	234	Ja	260	Se	217	238	83	133	7	143,705		
10 Labels and tags.....	14	584	9	31	32	39	473	Oc	500	Au	444	462	233	217	1	908,143		
11 Lamps and reflectors.....	21	463	9	28	28	30	368	.....	.....	.....	.....	364	309	38	14	416,804
12 Automobile, carriage, and wagon lamps.	3	59	.....	5	1	4	49	Ap	75	No	25	33	31	1	1	45,783	
13 All other lamps.....	15	381	7	19	27	24	304	No	372	Je	261	316	264	36	13	347,040		
14 Reflectors.....	3	23	2	4	.....	2	15	Ja	16	Se	14	15	14	1	.....	23,375
15 Lapidary work.....	6	42	2	4	7	1	28	Oc	36	Mh	23	34	34	.....	.....	181,757
16 Leather goods, not elsewhere specified.	38	567	27	40	31	21	448	Fe	472	De	402	453	299	143	4	935,043		
17 Leather, tanned, curried, and finished.	28	2,897	24	53	122	20	2,678	Fe	2,847	Se	2,455	3,012	2,990	19	3	10,774,503		
18 Lime.....	14	506	6	21	27	4	448	Se	584	Fe	337	409	409	.....	.....	1,748,045
19 Liquors, distilled, alcohol and whisky.	7	989	.....	32	80	22	855	Mh	889	My	819	869	786	81	2	12,201,003	
20 Liquors, malt.....	89	6,918	24	398	703	44	5,749	Jy	6,246	Fe	5,453	5,588	5,520	44	15	60,077,501		
21 Lithographing.....	34	1,150	14	54	99	39	944	My	965	Fe	914	956	810	136	8	2,005,232		
22 Looking-glass and picture frames.	59	2,113	41	76	157	98	1,741	Mh	1,806	De	1,578	1,824	1,636	157	26	2,701,010		
23 Lubricating greases.....	8	108	.....	15	35	5	53	Je	59	Ja	46	48	48	.....	.....	287,335
24 Lumber and timber products.....	203	2,975	254	80	66	13	2,562	Je	3,075	De	1,795	2,958	2,952	6	.....	4,086,072	
25 Lumber, planing-mill products, not including planing mills connected with sawmills.	333	9,170	217	433	590	196	7,734	Au	8,211	De	7,168	7,681	7,613	16	46	19,061,558		
26 Malt.....	14	543	1	28	70	6	438	Ja	531	Au	295	449	449	.....	.....	10,722,706
27 Marble and stone work, not including slate products.	312	2,654	367	146	116	50	1,975	Jy	2,143	Fe	1,784	1,942	1,935	7	.....	5,116,260	
28 Mattresses and spring beds, not elsewhere specified.	86	1,305	82	53	109	43	1,018	My	1,072	De	955	968	802	164	2	1,050,401		
29 Millinery and lace goods, not elsewhere specified.	102	4,003	68	119	320	173	3,323	.....	.....	.....	.....	3,353	837	2,443	9	2,805,993
30 Embroideries.....	26	623	19	24	46	23	511	Mh	560	Jy	444	547	102	388	4	463,701		
31 Trimmed hats and hat frames.....	54	2,854	36	68	245	131	2,374	Mh	3,304	Je	1,517	2,337	653	1,041	4	2,006,258		
32 Women's neckwear.....	6	158	2	10	4	6	136	Oc	159	De	118	137	21	114	.....	77,404	
33 All other, including dress and cloak trimmings.	16	368	11	17	25	13	302	Oc	342	Jy	272	332	31	300	1	258,540		
34 Mineral and soda waters.....	287	1,365	311	94	98	26	836	Jy	1,076	Fe	674	824	791	26	7	2,265,214		
35 Minerals and earths, ground.....	11	203	2	17	14	21	149	Oc	175	De	129	143	137	0	.....	632,211	
36 Mirrors, framed and unframed.....	13	390	7	22	23	12	326	Ja	343	Je	311	322	319	2	1	568,780		
37 Models and patterns, not including paper patterns.	76	575	75	25	14	10	451	Mh	510	Oc	375	412	384	24	4	443,954		
38 Motorcycles, bicycles, and parts....	13	1,015	7	19	58	20	911	Ap	1,405	Se	420	634	625	9	.....	1,584,178	
39 Mucilage and paste.....	9	64	9	5	2	7	41	Ja	48	Jy	38	41	26	15	.....	99,090	
40 Musical instruments and materials, not specified.	27	461	23	21	21	18	378	.....	.....	.....	.....	391	346	40	4	691,414
41 Brass and other metal.....	4	163	4	4	13	16	126	Fe	128	Ja	123	126	123	3	.....	220,808	
42 Violins and other stringed instruments.	17	161	17	11	2	.....	131	Fe	157	Au	109	130	122	3	4	280,085	
43 All other.....	6	137	2	6	6	2	121	Oc	139	Fe	100	135	101	34	.....	181,521	
44 Musical instruments, organs.....	10	265	6	14	4	9	232	Ja	242	No	210	210	200	8	2	432,040		
45 Musical instruments, pianos.....	43	7,527	9	144	434	258	6,682	Ap	7,064	Oc	6,370	6,414	6,098	240	63	36,453,010		
46 Musical instruments, piano materials.	18	1,523	9	44	29	21	1,420	Ja	1,586	De	1,212	1,340	938	385	15	2,454,611		
47 Oil, not elsewhere specified.....	7	55	4	8	17	5	21	Jy	29	Ja	14	19	18	.....	.....	170,305
48 Paints.....	40	2,728	10	137	772	139	1,670	Ap	1,856	No	1,488	1,488	1,338	149	1	15,997,632		
49 Paper and wood pulp.....	21	1,954	.....	55	143	52	1,704	Se	1,792	Fe	1,592	1,788	1,750	34	4	9,994,215	
50 Paper goods, not elsewhere specified.	24	539	9	36	59	28	407	Au	478	Ja	330	409	182	221	.....	916,364	
51 Patent medicines and compounds....	265	2,634	155	224	693	449	1,113	Mh	1,223	Au	1,022	1,069	601	430	10	7,909,991		
52 Paving materials.....	22	1,783	3	52	57	12	1,659	An	2,206	Fe	1,003	2,088	2,087	65	1	6,065,921		
53 Pens, fountain and stylographic.....	8	85	6	4	4	3	68	Oc	71	Ja	67	71	65	5	1	47,824		
54 Perfumery and cosmetics.....	60	617	42	43	28	131	373	Oc	390	Ja	353	368	94	258	7	555,604		
55 Petroleum, refining.....	9	1,208	30	98	8	.....	1,072	Mh	1,188	Se	984	993	993	.....	.....	9,168,159

1 Owned power only.

2 Includes rented power, other than electric.

MANUFACTURES—ILLINOIS.

49

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$182,672	\$153,174	\$1,348,268	-----	-----	\$208,889	\$13,656,576	\$8,137,571	\$25,861,528	\$4,067,381	94,160	84,160	10,000	-----	-----	-----	24,929	1
1,376,675	1,765,135	12,968,451	\$5,702	\$4,880	272,682	36,054,157	3,883,907	64,995,121	25,057,057	178,709	147,196	24,085	-----	-----	7,428	90,170	2
39,452	36,743	298,888	24,134	8,640	5,282	736,583	32,176	1,283,371	514,612	1,019	800	12	60	147	504	3	
55,701	57,081	336,889	5,269	15,674	4,644	352,993	10,911	887,828	523,924	376	6	-----	-----	-----	370	66	4
83,797	46,552	610,012	243	22,678	15,932	970,351	160,181	2,061,247	930,715	2,883	1,026	-----	-----	-----	1,857	103	5
23,700	37,957	161,382	150	3,010	5,527	551,435	15,813	920,918	353,670	458	208	60	-----	-----	190	93	6
10,620	1,040	39,625	-----	4,287	182	8,198	1,377	81,548	71,973	5	-----	-----	-----	-----	5	-----	7
173,902	225,206	795,185	15,360	100,390	8,121	1,237,819	17,038	3,264,465	2,009,608	585	150	7	-----	-----	428	75	8
17,793	3,102	114,316	-----	12,872	825	222,651	2,295	390,551	165,605	54	-----	-----	-----	-----	54	-----	9
83,013	70,191	234,172	8,688	20,697	3,223	461,009	8,999	1,124,686	654,678	393	-----	146	-----	-----	247	11	10
59,036	56,633	232,446	5,600	25,290	1,789	520,000	6,633	1,097,985	571,352	191	-----	15	-----	-----	176	2	11
9,516	2,726	32,685	-----	3,990	522	46,890	560	119,988	72,538	37	-----	10	-----	-----	27	-----	12
43,500	53,127	189,210	5,600	18,460	1,098	461,144	5,556	929,047	462,347	116	-----	5	-----	-----	111	2	13
6,020	780	10,551	-----	2,840	169	11,966	517	48,950	36,467	38	-----	-----	-----	-----	38	-----	14
5,400	3,664	27,242	1,975	7,010	526	69,130	860	127,176	57,186	21	-----	-----	-----	-----	21	-----	15
87,802	59,881	233,115	-----	42,531	4,446	1,169,366	15,744	1,858,919	673,809	1,044	760	13	-----	-----	281	35	16
188,979	144,451	1,537,540	-----	87,253	50,723	13,756,950	160,482	17,509,256	3,591,824	7,920	7,175	50	-----	-----	695	728	17
44,293	30,104	264,762	14,385	59	17,727	175,721	99,994	746,779	471,064	2,077	890	26	-----	-----	1,161	-----	18
182,646	148,934	657,622	22,147	1,050	39,809,841	8,300,224	305,984	51,596,022	42,989,814	7,634	7,574	60	-----	-----	-----	875	19
1,325,028	938,766	5,371,527	146,581	86,569	7,512,773	9,598,839	807,563	39,435,995	29,029,593	34,847	33,617	183	-----	-----	1,047	7,736	20
196,311	185,549	873,592	23,591	80,403	8,287	954,333	24,075	2,692,744	1,714,336	824	125	-----	-----	-----	699	180	21
199,834	246,797	1,030,994	2,200	113,755	9,675	1,536,215	45,849	3,836,779	2,254,715	1,577	520	225	-----	-----	832	-----	22
22,773	42,743	29,454	569	5,052	2,879	222,589	1,260	393,522	169,673	47	36	4	-----	-----	7	22	23
127,541	105,631	1,413,760	19,893	9,403	29,115	2,126,659	25,795	4,611,485	2,459,031	8,416	8,038	118	-----	-----	260	1,207	24
921,124	770,019	5,851,236	204,348	263,271	122,494	15,323,931	215,645	26,662,534	11,122,958	26,343	18,742	1,124	80	6,397	2,043	25	
161,514	217,401	425,766	3,039	37,797	71,260	8,938,587	246,664	11,132,980	1,947,729	7,724	6,435	900	-----	-----	389	4,391	26
284,183	142,424	1,656,344	133,744	76,861	33,235	2,452,457	123,247	6,175,739	3,600,035	6,381	1,652	652	-----	-----	4,077	373	27
122,832	153,335	546,088	1,705	75,734	13,408	2,090,235	36,139	3,669,634	1,543,260	1,435	310	104	-----	-----	1,021	-----	28
285,408	425,851	1,803,949	9,300	209,042	15,879	4,970,487	48,749	9,221,978	4,202,742	1,130	659	13	-----	-----	458	481	29
46,180	54,833	211,908	8,264	23,036	2,389	375,524	6,972	875,476	492,980	76	-----	9	-----	-----	67	-----	30
180,338	336,274	1,428,392	162,937	11,458	3,994,761	37,450	7,301,986	3,269,775	984	659	4	-----	-----	-----	321	481	31
17,440	7,683	60,668	1,036	7,600	335	134,390	1,288	308,980	173,302	20	-----	-----	-----	-----	20	-----	32
41,450	27,061	102,981	-----	15,469	1,697	465,812	3,039	735,536	266,085	50	-----	-----	-----	-----	50	-----	33
126,782	80,692	614,475	705	74,840	17,282	1,086,446	41,138	2,784,279	1,656,695	1,484	677	205	5	597	34	34	
28,555	36,152	88,540	-----	3,045	4,815	229,649	24,058	600,783	347,076	1,558	830	60	100	568	5	35	
41,664	27,245	215,730	5,057	17,767	5,378	649,303	11,179	1,074,978	414,496	469	300	5	-----	164	62	36	
39,400	17,841	336,114	7,980	43,788	2,325	179,890	13,349	882,326	689,087	634	-----	45	3	586	-----	37	
85,235	101,334	750,977	243	60,852	9,425	2,225,313	35,019	4,064,739	1,804,407	1,041	100	2	-----	939	-----	38	
8,417	9,418	19,261	6,096	3,606	534	108,330	3,079	192,715	81,306	113	-----	35	-----	78	-----	39	
54,413	27,828	236,901	6,320	15,426	11,427	238,021	11,970	719,344	469,353	352	30	105	-----	217	-----	40	
17,784	20,832	89,044	-----	2,180	9,555	72,697	3,343	220,177	144,137	131	-----	105	-----	26	-----	41	
21,449	1,156	87,056	1,120	5,786	1,460	70,696	4,864	244,740	169,180	166	-----	-----	-----	166	-----	42	
15,180	5,840	60,801	5,200	7,460	412	94,628	3,763	254,427	156,036	55	30	-----	-----	25	-----	43	
23,503	5,534	141,353	866	1,302	1,822	162,411	5,379	424,290	256,500	321	130	-----	-----	191	-----	44	
588,158	716,892	4,417,393	75	105,007	129,500	6,906,683	151,469	16,785,649	9,727,497	6,559	5,337	50	-----	1,172	2,023	45	
123,442	48,698	678,373	35	20,632	12,905	1,063,611	31,918	2,495,662	1,400,133	1,717	1,250	19	-----	448	771	46	
24,488	26,390	14,416	4,057	7,240	1,029	317,508	1,814	566,272	246,950	60	50	-----	-----	10	-----	47	
534,655	1,041,598	986,440	54,459	62,432	103,309	12,285,187	161,708	19,042,769	6,595,874	8,304	7,170	108	-----	1,026	4,666	48	
170,453	207,270	1,118,113	3,507	38,182	35,569	3,789,520	475,490	6,951,794	2,686,784	24,613	18,230	404	4,864	1,115	3,587	49	
95,982	119,027	169,159	2,518	40,448	2,867	983,168	11,375	1,590,702	596,159	418	10	23	-----	385	-----	50	
601,448	1,191,950	662,132	19,088	148,448	49,510	3,634,859	34,558	11,470,734	7,801,317	1,694	832	137	10	715	591	51	
160,667	82,673	1,053,103	181,870	28,717	21,926	871,023	214,038	2,962,680	1,877,619	7,941	1,900	40	-----	6,001	941	52	
5,400	4,820	41,394	250	5,395	273	91,341	896	171,198	78,961	29	-----	-----	-----	29	-----	53	
83,790	123,322	169,885	4,489	43,708	6,361	685,929	4,725	1,560,279	869,625	93	-----	-----	-----	93	-----	54	
95,567	111,476	899,208	46,569	14,590	68,337	11,914,032	494,146	16,892,727	4,484,549	2,607	2,072	184	-----	351	326	55	

* Same number reported for one or more other months.

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	Photographic apparatus.....	13	343	11	12	44	42	234				230	179	49		2	\$972, 119		
2	Cameras and motion-picture machines.....	6	311	4	8	44	38	217	Ja	239	Oc 3	198	209	171	36		2	952, 906	
3	All other apparatus and parts.....	7	32	7	4		4	17	Au 3	19	Ja 3	15	21	8	13			19, 153	
4	Photographic materials.....	5	337	2	16	32	22	265	Au	314	De	200	200	102	97	1		866, 918	
5	Photo-engraving.....	31	1, 634	13	77	199	90	1, 255	Ja	1, 352	Se	1, 201	1, 250	1, 017	230	1	2	2, 135, 774	
6	Pickles, preserves, and sauces.....	63	1, 486	46	70	133	45	1, 192					1, 724	882	792	10	40	3, 654, 134	
7	Preserves.....	7	228	3	7	10	2	206	Je	292	Ja	146	166	71	95			473, 507	
8	Pickles and sauces.....	56	1, 258	43	63	123	43	986	Se	1, 605	Je	785	1, 558	811	697	10	40	3, 180, 627	
9	Pipes, tobacco.....	4	118	1	10	20	4	83	Ja	89	Oc	74	87	68	18	1		242, 078	
10	Plumbers' supplies, not elsewhere specified.....	23	3, 931	11	79	330	89	3, 422	Ap	3, 577	De	3, 122	3, 122	2, 967	152	3		9, 250, 996	
11	Pocketbooks.....	3	27	4				23	Oc 3	31	Ap 3	15	31	31				6, 300	
12	Pottery, china, earthen and stone ware.....	16	1, 606	13	55	74	5	1, 459	Oc	1, 771	Ja	1, 141	1, 581	1, 554	21	6		3, 938, 500	
13	Poultry, killing and dressing.....	28	166	33	10	9	5	109	De	231	Mh	64	140	139	1			187, 200	
14	Printing and publishing, book and job.....	1, 173	24, 434	1, 037	1, 094	1, 918	1, 493	18, 892					18, 785	13, 928	4, 296	393	168	36, 353, 178	
15	Job printing.....	1, 008	20, 520	930	866	1, 171	628	16, 925	Mh	17, 610	My	16, 729	16, 899	12, 631	3, 763	373	132	24, 584, 282	
16	Book publishing and printing.....	18	1, 733	7	63	118	42	1, 503	Au	1, 612	De	1, 390	1, 446	942	455	13	36	4, 542, 317	
17	Book publishing without printing.....	132	1, 713	94	146	616	812	45	Ja 3	50	No	33	41	24	17			6, 541, 724	
18	Linotype work, typesetting.....	15	468	6	19	13	11	419	Mh	439	De 3	402	399	331	61	7		684, 855	
19	Printing and publishing, music.....	35	383	31	29	88	139	96					94	64	30			805, 381	
20	Printing and publishing.....	6	196	5	9	32	74	76	Ja 3	80	Au	71	74	56	18			377, 720	
21	Publishing without printing.....	29	187	26	20	56	65	20	(*)	20	(*)	20	20	8	12			427, 661	
22	Printing and publishing, newspapers and periodicals.....	1, 330	18, 038	1, 143	1, 111	4, 375	2, 388	9, 021					9, 101	7, 410	1, 477	187	27	32, 568, 038	
23	Printing and publishing.....	88	7, 484	43	278	2, 494	719	3, 950	Mh	4, 032	Au	3, 828	4, 005	3, 421	461	111	12	17, 912, 760	
24	Printing, publishing, and job printing.....	833	7, 112	869	358	571	531	4, 783	Mh	4, 839	Au	4, 695	4, 818	3, 714	1, 013	76	15	10, 015, 509	
25	Publishing without printing.....	409	3, 442	231	475	1, 310	1, 138	288	Ap	312	Ja	265	278	275	3			4, 639, 769	
26	Printing materials.....	11	128	7	11	24	9	77	Oc	83	Je 3	72	77	76	1			487, 196	
27	Pumps, not including power pumps.....	8	285	6	18	16	5	240	Ja	264	De	202	207	201		6		615, 275	
28	Pumps, steam and other power.....	9	107	2	22	8	7	68					68	68				352, 282	
29	Steam.....	4	37		10	2	2	23	Oc 3	26	Je	20	24	24				109, 600	
30	Other power.....	5	70	2	12	6	5	45	Ja	67	Je	37	44	44				242, 682	
31	Refrigerators.....	9	504	6	17	55	10	416	De	446	Au 3	382	412	412				1, 222, 931	
32	Regalia and society badges and emblems.....	14	251	7	14	23	13	194	My	223	Ja	172	178	54	115	6	3	386, 982	
33	Roofing materials.....	23	1, 146	3	69	157	55	862					826	815	8	3		5, 766, 142	
34	Metal shingles and ceilings.....	6	127	2	9	16	6	94	My 3	121	Ja	64	88	82	6			540, 178	
35	All other.....	17	1, 019	1	60	141	49	768	My 3	843	Ja	653	738	733	2	3		5, 225, 904	
36	Rubber goods.....	17	683	4	26	68	22	563	My	601	Au	519	550	474	73	2	1	1, 675, 391	
37	Saddlery and harness.....	216	1, 178	229	35	71	24	819	Mh	866	Au	747	850	798	48	3	1	2, 840, 537	
38	Sausage.....	28	384	26	15	24	7	312	Au	356	Mh	283	297	277	20			772, 942	
39	Saws.....	9	491	6	8	33	12	432	Mh	457	De	411	410	408	1	1		1, 247, 732	
40	Scales and balances.....	12	613	10	22	32	18	531	Je	687	Oc	349	496	485	10	1		1, 507, 103	
41	Screws, machine.....	9	628	2	17	27	15	567	Mh	596	No	518	548	526	13	9		1, 420, 991	
42	Sewing machines and attachments.....	7	2, 118	2	40	303	56	1, 717	Mh	1, 821	No	1, 625	1, 641	1, 576	61	4		5, 377, 354	
43	Shipbuilding, wooden, including boat building.....	21	187	22	16	6	6	137					137	137				394, 351	
44	New vessels and repair work.....	7	68	9	5	3	1	50	Ap	80	De	23	55	55				225, 509	
45	Small boats.....	14	119	13	11	3	5	87	Je	117	Ja	59	82	82				168, 842	
46	Shirts.....	26	1, 056	14	31	27	17	967	Mh	1, 208	Au	825	1, 067	354	690	2	21	614, 633	
47	Show cases.....	12	356	12	13	12	8	311	Fe	340	De	280	293	293				590, 693	
48	Signs and advertising novelties.....	150	3, 036	132	137	414	177	2, 176					2, 243	1, 706	487	25	25	8, 207, 060	
49	Electric signs.....	13	392	10	37	114	41	190	Ap	209	Ja	177	201	181	20			2, 037, 731	
50	Other signs.....	94	1, 404	93	43	142	52	1, 074	Je	1, 179	No	971	1, 104	990	103	11		4, 205, 443	
51	Advertising novelties.....	43	1, 240	29	57	158	84	912	No	980	Jy	858	938	535	364	14	25	1, 963, 886	
52	Slaughtering and meat packing.....	70	39, 298	33	342	6, 620	988	31, 315	De	35, 366	My	28, 264	34, 658	31, 102	3, 500	18	38	210, 561, 104	
53	Smelting and refining, zinc.....	8	3, 762	1	40	145	3	3, 573	De	3, 783	Jy	3, 468	3, 499	3, 474	2			15, 014, 348	
54	Smelting and refining, not from the ore.....	17	357	16	24	25	10	282	Mh	312	De	257	266	265		1		1, 957, 993	
55	Soap.....	27	3, 107	11	76	682	194	2, 144	Mh	2, 227	De	2, 072	2, 093	1, 481	531	21	60	12, 308, 263	
56	Soda-water apparatus.....	11	1, 446	4	39	148	79	1, 176	Ap	1, 310	Jy	1, 080	1, 105	990	13	102		4, 811, 475	
57	Sporting and athletic goods.....	21	860	14	28	26	23	769	My	858	Au	709	768	437	321	2	8	1, 011, 493	
58	Springs, steel, car, and carriage, not made in steel works or rolling mills.....	7	575		20	53	14	488					464	460		4		1, 289, 866	
59	Automobile, carriage, wagon, and railway.....	4	257		10	24	8	215	Ja	233	Oc	186	201	201				933, 122	
60	Machinery and other.....	3	318		10	29	6	273	My	296	Ja	227	263	259		4		356, 744	
61	Stamped and enameled ware, not elsewhere specified.....	22	1, 732	9	38	80	33	1, 572	Ap	1, 865	Jy	1, 193	1, 487	1, 194	274	19		4, 323, 264	
62	Stationery goods, not elsewhere specified.....	23	646	15	29	100	35	467	Fe 3	485	No 3	444	447	303	140	4		1, 808, 363	
63	Statuary and art goods.....	13	514	7	16	32	9	450	No	471	Ja	422	468	466	2			783, 197	

¹ Owned power only.

² Includes rented power, other than electric.

MANUFACTURES—ILLINOIS.

51

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$29,516	\$68,424	\$188,046	\$9,835	\$9,569	\$4,002	\$177,460	\$6,703	\$511,440	\$327,277	314				314	1
23,406	66,495	172,287	8,000	5,570	3,926	168,476	6,582	470,850	295,792	254				254	2
6,110	1,929	15,759	1,835	3,999	76	8,984	121	40,590	31,485	60				60	3
42,100	40,385	138,467		3,690	5,862	453,743	8,512	808,966	341,711	358	300	1		57	4
226,264	235,334	1,183,761	51,522	94,120	15,292	551,988	39,279	3,356,688	2,765,421	1,071	355	185		531	5
149,905	189,808	538,224	40,050	62,325	26,416	3,569,563	40,040	5,525,057	1,915,454	3,017	972	78		1,967	6
16,649	9,848	99,971		26,970	5,039	714,136	10,708	968,062	243,218	249	168			81	7
133,256	179,960	438,253	40,050	35,355	21,377	2,855,427	29,332	4,556,955	1,672,236	2,768	804	78		1,886	8
24,224	17,830	44,957		9,612	271	41,518	1,500	154,623	111,605	61		2		59	9
216,117	442,285	2,157,035	361	57,374	47,807	2,496,519	188,631	6,260,419	3,575,269	4,534	1,961	84	100	2,389	10
		12,752	48	300	8	34,885	66	52,144	17,163						11
145,041	73,855	915,105		60	23,593	199,240	158,599	1,787,541	1,429,702	1,376	1,230	21		125	12
7,164	5,387	66,690	895	5,746	869	1,043,013	1,114	1,243,910	1,999,783	51		30		21	13
2,764,761	3,001,934	14,013,192	3,746,938	1,619,702	162,165	18,857,206	498,148	54,625,954	35,270,600	17,031	4,080	265		12,686	14
2,136,482	1,546,829	12,569,942	1,691,391	1,410,748	126,288	17,453,882	448,763	41,311,634	26,408,989	14,288	1,955	265		12,068	15
135,445	204,285	934,961	10,630	128,097	12,743	869,385	37,078	2,786,492	1,880,492	2,593	2,125			463	16
448,506	1,230,367	41,681	2,040,367	62,211	21,167	457,234	3,130	6,760,076	6,299,712	71				71	17
44,318	20,453	466,608	4,550	18,646	1,967	76,705	9,177	767,289	681,407	79				79	18
93,148	159,572	62,626	273,312	32,914	3,308	124,327	3,751	1,042,794	914,716	118				118	19
39,600	69,710	51,370	40,909	11,780	668	66,707	2,922	339,105	269,476	63				63	20
53,548	89,862	11,256	232,403	21,134	2,640	57,620	829	703,689	645,240	55				55	21
2,810,107	6,066,890	6,711,009	4,741,706	709,347	192,217	9,988,297	352,618	47,026,681	36,685,766	12,997	1,589	875	19	10,514	22
1,026,403	3,032,807	3,299,019	87,385	230,755	105,036	5,693,282	183,403	20,524,821	14,648,136	7,291	1,090	81		6,120	23
645,961	831,662	3,230,463	98,299	255,321	56,688	2,941,979	167,828	12,042,212	8,932,405	5,663	499	794	19	4,351	24
1,137,743	2,202,421	181,527	4,556,022	223,271	30,493	1,353,036	1,387	14,459,648	13,105,225	43				43	25
37,857	41,002	64,027	2,317	12,270	3,279	131,286	6,059	453,217	315,872	163		40		123	26
29,990	18,018	186,391		1,220	5,065	280,723	9,536	602,164	311,905	349	35		115	199	27
31,488	8,776	59,849	3,465	6,584	1,664	121,293	2,922	275,373	151,158	107	50	5		52	28
11,466	2,628	20,858		1,770	903	40,033	1,622	113,812	72,157	77	50			27	29
20,022	6,148	38,991	3,465	4,814	761	81,260	1,300	161,561	79,001	30		5		25	30
38,931	38,519	290,763	3,778	8,343	5,242	586,593	9,225	1,109,998	514,180	648	500			148	31
22,195	21,656	88,159	243	7,950	2,701	262,502	2,186	521,786	257,098	62				62	32
219,132	279,437	579,326	14,251	5,591	30,542	4,192,815	126,105	6,643,854	2,324,934	1,766	698		36	1,032	33
31,063	17,553	43,561	49	1,920	1,357	331,571	8,749	416,872	76,652	234	138		36	60	34
188,069	261,884	535,765	14,202	3,671	29,185	3,861,244	117,356	6,226,982	2,248,382	1,532	560			972	35
71,302	81,246	341,625	3,775	14,118	9,142	912,246	52,794	1,980,133	1,016,093	1,951	1,180	20		751	36
58,838	78,831	546,518	3,765	63,226	18,874	1,061,195	17,240	3,433,482	1,355,047	501	225	15		261	37
38,895	35,856	246,594		11,987	4,766	3,082,138	37,375	3,868,144	748,631	921	353	13		555	38
27,186	60,186	294,286		7,662	6,617	580,671	51,735	1,225,072	592,666	1,795	190			1,605	39
78,944	36,005	397,947	32,301	16,718	8,321	517,184	20,170	3,752,843	838,489	702	230			472	40
39,515	41,665	373,043		10,310	9,830	413,779	25,072	1,028,463	589,612	1,045	450	25		570	41
122,211	413,458	850,460	369	2,986	20,681	1,006,307	48,831	3,547,849	2,492,648	2,615	2,300	142		1,579	42
22,470	6,817	99,909	524	4,941	1,137	105,307	2,852	283,341	176,182	251		123		128	43
9,120	3,200	43,636		880	429	33,880		116,175	81,540	80				72	44
13,350	3,617	56,273	524	4,081	708	71,447	2,077	167,166	93,642	171		115		56	45
79,494	35,856	440,209	2,122	35,899	2,565	797,653	9,589	1,632,322	825,080	314	95		2	217	46
26,126	23,167	220,109		16,908	2,958	247,095	8,205	694,053	438,753	430	268			162	47
360,181	563,191	1,404,249	359,891	96,705	27,985	1,786,684	36,976	6,045,092	4,221,432	1,888	543	83		1,262	48
54,420	40,807	114,864	5,325	17,078	6,407	247,207	2,344	528,750	279,199	48				48	49
160,900	287,721	810,869	328,162	49,392	15,038	785,548	20,543	3,284,857	2,488,766	609	210	34		425	50
144,861	234,663	478,516	26,204	30,235	6,540	753,929	14,089	2,221,485	1,453,407	1,171	333	49		789	51
1,622,632	8,551,108	19,285,765	21,697	165,065	844,076	407,042,018	1,853,052	485,362,180	76,467,110	66,598	60,778	216		5,604	52
190,087	241,216	2,571,407		21,250	60,755	12,978,157	1,224,235	18,421,039	4,220,647	16,253	16,213	40		6,798	53
87,390	64,890	190,174	52	9,378	7,787	3,446,929	68,663	4,587,299	1,071,707	1,337	1,055	18		264	54
267,391	792,125	1,254,752	21,882	83,495	77,848	14,936,204	316,689	21,420,035	6,167,142	6,108	3,568	1,501		1,039	55
131,900	226,284	897,583		14,520	26,810	1,756,056	31,929	4,237,536	2,448,651	1,805	375	115		1,315	56
49,473	54,074	397,188	6,761	27,015	7,809	1,198,731	27,253	2,237,529	1,011,545	373	30	17		326	57
106,546	69,559	322,522		22,765	8,619	615,409	43,020	1,399,764	741,335	1,293	830			463	58
68,512	39,407	138,872		2,700	6,088	351,457	31,069	790,570	408,044	986	830			156	59
38,034	30,152	183,650		20,065	2,831	263,952	11,951	609,194	333,291	307				307	60
132,897	120,260	899,689	5,409	42,328	18,587	1,247,881	82,474	3,578,943	2,248,588	1,875	1,190	25		660	61
90,394	186,813	290,397	14,250	24,786	13,212	861,116	14,222	2,041,713	1,166,375	440	100	28		312	62
48,371	45,249	326,070	8,546	15,752	4,695	144,407	7,710	818,918	666,801	205	120			85	63

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	Steam fittings and steam and hot-water heating apparatus.	34	3,052	7	108	294	64	2,579				2,416	2,321	91	4	\$7,857,418			
2	Radiators and cast-iron heating boilers.	8	640	1	20	69	21	529	Fe	592	De	465	475	473		1,859,584			
3	All other.....	26	2,412	6	88	225	43	2,050	Mh	2,219	Ja	1,927	1,941	1,848	91	2	5,997,834		
4	Steam packing.....	15	212	6	24	10	8	164	De	204	Jy	126	202	193	3	6	264,359		
5	Stencils and brands.....	7	25	7	1			16	(*)	16	(*)	16	16	12	4		19,690		
6	Stereotyping and electrotyping.....	25	935	8	51	146	25	705	Ja	716	Oc	696	684	682	1	1	812,634		
7	Stoves and hot-air furnaces, except gas and oil stoves.	62	3,930	32	153	313	109	3,323					3,053	3,023	2	28	9,474,717		
8	Stoves and ranges.....	45	3,640	20	133	292	98	3,106	Ap	3,646	De	2,452	2,837	2,808	1	28	8,825,539		
9	Hot-air furnaces and fireless cookers.	17	281	12	20	21	11	217	Se	241	Fe	196	216	215	1		649,178		
10	Stoves, gas and oil.....	8	703		30	64	15	594	Jy	718	Ja	480	641	623	10	8	1,687,986		
11	Structural ironwork, not made in steel works or rolling mills.	115	5,909	78	243	560	95	4,933	Je	5,198	De	4,116	4,112	4,101	7	4	11,870,802		
12	Surgical appliances.....	26	1,000	15	45	182	104	654	Oc	756	Au	587	687	366	313	5	3	1,692,821	
13	Suspenders, garters, and elastic woven goods.	14	885	16	23	98	51	697	Jy	765	De	627	628	34	553	1	40	807,946	
14	Tinware, not elsewhere specified....	32	3,808	11	71	228	115	3,383	Je	3,716	No	3,021	3,133	2,212	900	13	8	22,232,974	
15	Tobacco, chewing and smoking, and snuff.	44	1,721	48	24	394	64	1,196	Se	1,301	De	1,126	1,131	362	760	5	4	5,885,510	
16	Tobacco, cigars and cigarettes.....	1,578	8,618	1,730	141	234	56	6,457	De	6,628	Ap	6,324	6,739	5,005	1,556	129	49	6,136,000	
17	Tools, not elsewhere specified.....	68	1,388	58	89	72	54	1,115	My	1,209	Oc	952	1,091	1,068	19	4	2,384,469		
18	Toys and games.....	14	183	8	14	9	13	139	No	231	Ja	83	177	101	75	1		214,910	
19	Trunks and valises.....	47	1,224	43	37	84	25	1,035	Mh	1,084	De	964	1,036	905	121	7	3	1,530,878	
20	Type founding.....	7	318	2	14	22	14	266	Ap	301	Jy	232	253	206	47			1,695,379	
21	Upholstering materials, not elsewhere specified.	8	481	3	10	29	5	434	Mh	475	De	401	401	308	91		2	1,275,327	
22	Varnishes.....	32	902	5	75	290	92	440	Ap	472	De	410	413	371	40	2		5,136,827	
23	Vault lights and ventilators.....	5	183	1	17	12	10	143	Je	171	Mh	112	137	137				300,984	
24	Vinegar and cider.....	12	210	7	12	24	7	160					187	176	11			1,021,460	
25	Vinegar.....	7	198	3	11	23	6	155	Oc	172	Ja	145	168	157	11			1,007,610	
26	Cider.....	5	12	4	1	1	1	5	Oc	19	Ja	0	19	19				13,850	
27	Wall paper, not made in paper mills.	5	677	2	19	87	25	544	Fe	640	Je	392	551	450	101			2,021,336	
28	Wall plaster.....	5	74	2	7	15	2	48	Je	51	De	44	49	49				469,558	
29	Washing machines and clothes wringers.	18	356	14	31	37	27	247	Jy	293	Ja	203	236	236				693,725	
30	Windmills, not elsewhere specified..	11	1,388	4	48	119	35	1,182	Mh	1,299	No	994	1,149	1,142	3	4		3,754,664	
31	Window and door screens and weather strips.	24	197	26	20	7	8	136					138	131	3	4		288,477	
32	Window and door screens.....	19	155	24	9	4	5	113	Je	171	Ja	64	112	106	2	4		120,337	
33	Weather strips.....	5	42	2	11	3	3	23	De	30	Mh	18	26	25	1			168,140	
34	Window shades and fixtures.....	47	1,143	37	33	113	42	918	Au	946	De	887	891	686	199	6		2,915,766	
35	Wire.....	9	3,241		105	290	83	2,763	My	2,996	De	2,113	2,123	2,105	18			11,205,140	
36	Wirework, including wire rope and cable, not elsewhere specified.	51	1,154	30	66	110	62	886					877	809	63	5		4,028,399	
37	Woven-wire fencing.....	13	641	3	32	83	37	486	Ja	604	Jy	346	447	432	15			3,022,735	
38	All other.....	38	513	27	34	27	25	400	De	420	Se	381	430	377	48	5		1,005,694	
39	Wood preserving.....	5	495		34	52	5	404	Je	509	Fe	268	410	409		1		2,161,350	
40	Wood, turned and carved.....	31	594	26	33	23	7	475	No	488	Jy	459	489	481	5	2	1	764,377	
41	Wooden goods, not elsewhere specified.	10	146	12	9	8	2	115	Ap	153	De	96	96	96				306,715	
42	Wool pulling.....	8	48	10				38	Se	57	Jy	10	48	48				63,384	
43	Woolen goods.....	4	364		18	10	13	323	Mh	348	Au	243	334	238	88	4	4	831,467	
44	All other industries *.....	182	22,739	78	552	2,154	719	19,236										114,424,343	

* Owned power only.

* Includes rented power, other than electric.

* All other industries embrace—

Aeroplanes and parts.....	2	Clocks.....	5	Enameling.....	2	Hardware, saddlery.....	5
Aluminum ware.....	4	Clothing, horse.....	3	Felt goods.....	2	Hones and whetstones.....	1
Ammunition.....	1	Combs and hairpins, not made from metal or rubber.....	2	Files.....	3	Ink, writing.....	6
Bags, paper, not including bags made in paper mills.....	2	Cordage and twine.....	3	Fire extinguishers, chemical.....	3	Iron and steel, cast-iron pipe.....	1
Bells.....	1	Cork, cutting.....	3	Fireworks.....	3	Iron and steel, wrought pipe.....	3
Belting and hose, woven.....	2	Cotton goods.....	3	Fuel, manufactured.....	1	Ivory, shell, and bone work.....	3
Butter, reworking.....	2	Cotton small wares.....	2	Glucose and starch.....	5	Lace, cotton.....	1
Cars, electric-railroad, not including operations of railroad companies..	1	Drug grinding.....	3	Gold and silver, reducing and refining, not from the ore.....	4	Lasts.....	1
		Dyestuffs and extracts.....	2	Hammocks.....	2	Lead, bar, pipe, and sheet.....	1
						Liquors, vinous.....	2

MANUFACTURES—ILLINOIS.

53

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horse-power generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$322,160	\$362,246	\$1,540,214	\$13,283	\$48,585	\$35,999	\$2,217,978	\$138,304	\$5,470,380	\$3,114,098	4,492	3,720	41	-----	731	3,603	1
81,696	99,183	346,078	3,006	5,539	9,817	640,908	47,590	1,402,515	714,017	788	485	-----	-----	308	298	2
240,464	263,063	1,194,136	10,277	43,046	26,182	1,577,070	90,714	4,067,865	2,400,081	3,704	3,235	41	-----	428	3,305	3
53,553	14,828	130,525	3,200	10,712	1,271	303,828	5,377	616,882	307,677	125	35	10	-----	80	-----	4
750	468	10,590	-----	2,562	138	12,351	302	37,170	24,517	8	-----	1	-----	7	-----	5
139,034	104,366	627,753	3,576	75,685	2,377	364,412	43,304	1,593,829	1,186,113	1,339	-----	-----	-----	1,339	-----	6
358,965	459,024	2,464,079	58,125	29,948	54,542	3,219,675	111,965	8,404,439	5,072,799	4,578	2,411	152	-----	2,015	1,143	7
307,700	421,383	2,292,454	17,427	22,494	51,226	2,797,366	104,488	7,434,806	4,532,952	4,248	2,411	140	-----	1,697	1,143	8
51,265	37,641	171,625	40,698	7,454	3,316	422,309	7,477	969,633	539,847	330	-----	12	-----	318	-----	9
74,196	63,842	395,418	24,898	5,693	12,697	843,524	15,774	1,798,559	939,261	602	350	55	-----	197	136	10
578,262	727,753	3,650,883	600,052	63,637	89,605	8,351,033	194,150	16,023,040	7,477,857	13,148	5,566	170	-----	7,412	5,308	11
116,153	321,797	383,857	10,529	28,615	7,446	1,619,000	27,102	3,135,199	1,489,097	558	385	30	-----	143	352	12
52,089	127,337	237,396	137,286	20,952	4,452	1,213,048	6,966	2,076,556	856,542	135	-----	-----	-----	135	2	13
259,182	351,153	1,980,059	175	47,331	57,338	8,352,536	135,579	12,937,296	4,449,181	3,069	1,493	434	-----	1,142	994	14
117,680	532,649	584,726	160	10,569	2,204,731	4,947,669	24,233	12,716,651	7,744,849	1,000	965	2	-----	33	656	15
250,597	301,214	3,924,031	2,736	237,829	1,025,556	5,045,396	36,644	13,320,078	8,238,038	143	75	2	-----	66	-----	16
183,680	110,997	798,637	28,238	74,221	11,037	886,612	77,270	2,615,655	1,671,773	3,367	1,355	893	14	1,105	602	17
24,400	13,633	79,017	3,824	11,886	505	134,021	1,696	371,108	235,391	52	-----	4	-----	48	-----	18
84,081	104,456	693,741	-----	72,843	10,545	1,227,510	11,782	2,637,761	1,998,469	522	281	-----	-----	241	365	19
40,592	30,963	195,215	1,817	34,531	5,537	326,575	8,508	792,772	457,689	796	-----	375	-----	421	-----	20
30,913	45,955	239,529	-----	14,191	7,607	1,211,974	32,873	1,770,525	525,678	1,452	710	100	-----	642	228	21
245,863	481,508	314,467	7,427	37,155	36,462	2,988,469	41,134	5,445,680	2,416,077	1,604	593	7	89	915	15	22
45,554	28,961	149,206	-----	6,800	1,935	275,387	2,611	573,167	295,169	91	-----	41	-----	50	-----	23
39,399	32,295	112,853	-----	989	8,551	474,447	17,909	791,054	298,698	705	630	25	-----	50	-----	24
38,799	31,495	109,745	-----	914	8,445	468,403	17,239	773,540	287,998	605	575	5	-----	25	-----	25
600	800	3,108	-----	75	106	6,044	670	17,514	10,800	100	55	20	-----	25	-----	26
85,400	103,215	335,088	960	27,210	10,451	1,251,592	29,531	2,254,048	972,925	1,062	637	2	-----	373	105	27
18,479	19,365	35,753	13,820	1,650	2,893	142,205	4,360	281,310	134,745	279	240	-----	-----	39	1	28
65,875	56,356	150,277	5,520	19,731	1,685	616,067	6,875	1,137,217	514,275	296	-----	30	-----	266	-----	29
142,894	163,370	749,262	37,062	21,200	31,181	1,457,785	34,871	3,194,144	1,701,488	2,076	1,580	16	330	150	1,696	30
37,504	10,430	94,737	2,385	8,916	2,463	211,776	5,578	560,988	343,634	266	20	22	-----	224	-----	31
9,124	5,770	75,495	-----	5,470	1,236	93,753	4,664	238,535	140,118	209	20	22	-----	167	-----	32
28,380	4,660	19,242	2,385	3,446	1,227	118,023	914	322,453	203,516	57	-----	-----	-----	57	-----	33
73,470	182,488	543,629	415	35,965	15,488	3,680,253	51,568	4,950,677	1,818,856	2,102	1,636	-----	-----	466	2,580	34
264,343	424,228	2,057,511	-----	50,205	9,530,061	342,017	342,017	15,219,277	5,347,199	17,006	16,155	-----	150	701	4,558	35
154,799	151,031	555,408	15,821	26,238	12,717	3,381,514	39,163	4,682,478	1,261,801	1,677	445	34	260	938	175	36
56,151	108,520	315,543	3,349	2,461	7,373	2,700,815	24,788	3,368,321	642,718	795	-----	22	50	723	-----	37
98,648	42,511	239,865	12,472	23,777	5,344	680,699	14,375	1,314,157	619,083	882	445	12	210	215	175	38
72,642	54,371	290,194	-----	2,114	11,538	1,504,454	39,680	2,317,393	773,259	925	725	200	-----	-----	1,063	39
61,626	30,379	295,221	692	22,163	3,421	592,732	16,344	1,181,977	572,901	1,015	665	110	-----	240	147	40
8,790	11,651	54,357	3,000	1,510	2,034	117,206	3,221	261,407	140,980	272	245	5	-----	22	80	41
-----	-----	28,869	16,621	3,862	191	448,675	726	498,482	49,081	35	25	-----	-----	10	-----	42
30,832	10,094	156,038	2,940	-----	4,241	418,895	17,069	717,466	281,499	940	600	-----	280	60	96	43
1,996,256	2,908,530	11,788,944	108,905	267,492	795,658	77,070,923	1,436,637	109,708,407	31,260,847	56,302	49,490	598	30	6,184	24,698	44

* Same number reported throughout the year.

* None reported for one or more other months.

Matches.....	2	Peanuts, grading, roasting, cleaning, and shelling.....	1	Screws, wood.....	2	Typewriters and supplies.....	11
Needles, pins, and hooks and eyes.....	1	Pencils, lead.....	1	Sewing-machine cases.....	1	Umbrellas and canes.....	4
Nets and seines.....	3	Phonographs and graphophones.....	3	Shipbuilding, iron and steel.....	1	Waste.....	1
Oil, cottonseed, and cake.....	2	Plated ware.....	1	Silk goods, including throwsters.....	3	Watch and clock materials.....	4
Oil, linseed.....	4	Pulp goods.....	1	Silverware.....	4	Watch cases.....	4
Oilcloth and linoleum, floor.....	1	Rules, ivory and wood.....	1	Smelting and refining, lead.....	4	Watches.....	2
Oilcloth, enameled.....	1	Sales and vaults.....	1	Sugar, beet.....	1	Whips.....	2
Oleomargarine.....	4	Salt.....	1	Sulphuric, nitric, and mixed acids.....	2	Wool scouring.....	3
Optical goods.....	10	Sand and emery paper and cloth.....	1	Tin plate and terneplate.....	1	Wool shoddy.....	1
Paper patterns.....	3	-----	-----	Tin foil.....	1	-----	-----

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.					
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.				
								Maximum month.	Minimum month.									
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																		
1 CHICAGO—All industries.....	10,115	387,319	8,184	11,881	39,124	14,420	313,710	Mh 323,852	Au 305,464	313,183	246,564	62,307	1,644	2,668	\$1,190,068,927			
2 Artificial stone products.....	24	354	20	21	12	8	293	My 314	Oc 260	313	313	.....	.....	.....	372,091
3 Automobile bodies and parts.....	51	1,220	43	76	125	48	928	No 1,088	Ja 787	1,007	986	20	1	.....	1,688,565		
4 Automobiles.....	14	654	6	35	85	27	501	My 561	De 428	447	445	2	.....	.....	1,556,683	
5 Automobile repairing.....	54	340	49	13	13	6	259	Jy 276	Ja 237	254	251	2	1	.....	236,522		
6 Awnings, tents, and sails.....	39	400	37	18	19	19	307	Je 393	Oc 261	320	165	151	3	1	485,730			
7 Bags, other than paper.....	9	318	6	12	12	13	275	Se 281	No 260	268	119	149	.....	.....	464,731	
8 Baking powders and yeast.....	13	913	7	47	255	52	552	Ja 590	Ja 516	544	404	140	.....	.....	5,983,274	
9 Baskets, and rattan and willow ware.....	8	58	11	1	.....	1	45	Mh 51	Jy 40	44	38	5	1	.....	45,745	
10 Billiard tables and materials.....	5	36	3	4	6	1	22	Mh 23	My 21	22	19	3	.....	.....	72,200	
11 Blacking, stains, and dressings.....	17	217	15	8	32	15	147	Jy 169	Au 120	145	82	60	3	.....	327,948		
12 Bluing.....	5	21	3	4	2	2	10	Au 12	Ja 8	11	9	2	.....	.....	15,684	
13 Bookbinding and blank-book making.....	86	2,698	69	80	80	88	2,381	Jy 2,669	N 2,168	2,375	1,272	1,044	28	31	2,645,752			
14 Boots and shoes, including cut stock and findings.....	41	4,331	36	77	196	86	3,936	Jy 4,132	Ap 3,667	4,055	2,637	1,334	38	46	5,238,735			
15 Boxes, cigar.....	9	363	7	13	17	6	320	Fe 333	Ap 313	314	121	154	9	30	335,723			
16 Boxes, fancy and paper.....	67	4,284	31	147	229	121	3,756	Ja 4,031	My 3,626	3,703	1,381	1,877	41	404	5,140,704			
17 Boxes, wooden packing.....	30	3,424	21	57	106	17	3,223	Mh 3,356	No 3,106	3,130	3,017	111	2	.....	4,727,405		
18 Brass, bronze, and copper products.....	59	1,451	34	80	92	23	1,222	My 1,363	No 904	1,190	1,154	25	11	.....	2,920,072		
19 Bread and bakery products.....	1,305	10,422	1,379	133	984	246	7,680	.....	.....	7,844	5,674	2,095	32	43	21,024,442	
20 Bakery products, other than biscuits and crackers.....	1,294	7,331	1,373	99	650	211	4,998	Oc 5,090	Ja 4,828	5,166	4,300	827	30	9	9,541,876			
21 Biscuits and crackers.....	11	3,091	6	34	334	35	2,682	Oc 2,885	Ja 2,342	2,678	1,374	1,268	2	34	12,082,566			
22 Brick, terra-cotta, and fire-clay products.....	6	468	1	21	49	2	395	Jy 540	Ap 204	552	548	4	.....	.....	1,408,476	
23 Brooms.....	31	350	38	10	4	4	294	Oc 317	Je 276	312	218	94	.....	.....	198,139	
24 Brushes.....	28	377	25	22	10	9	311	Mh 345	No 256	265	178	78	5	4	736,188			
25 Butter.....	7	115	2	11	20	15	67	Jy 73	Mh 63	66	48	18	.....	.....	443,280	
26 Buttons.....	14	365	15	10	14	6	320	Au 349	Jy 288	337	161	164	4	8	320,814			
27 Canning and preserving, fish.....	3	12	3	.....	.....	.....	9	(*)	9	9	9	.....	.....	.....	6,542
28 Card cutting and designing.....	4	139	2	7	7	7	123	De 263	Ja 43	262	30	195	1	36	133,057			
29 Cardboard, not made in paper mills.....	3	94	.....	10	4	7	73	Je 80	Ja 65	72	41	30	1	.....	166,511	
30 Carpets, rag.....	21	229	21	6	20	12	170	Ap 201	Oc 155	170	129	35	6	.....	87,303		
31 Carriage and wagon materials.....	9	55	11	2	1	.....	41	Jy 45	Ja 34	44	41	3	.....	.....	45,201
32 Carriages and wagons.....	127	2,073	147	49	121	21	1,735	.....	.....	1,551	1,541	10	.....	.....	9,619,026
33 Carriages and wagons.....	113	2,023	127	49	121	21	1,705	Ap 1,867	De 1,443	1,524	1,514	10	.....	.....	9,429,143	
34 Repair work only.....	14	50	20	.....	.....	.....	30	Jy 34	Ja 26	27	27	.....	.....	.....	90,783
35 Cars and general shop construction and repairs by steam-railroad companies.....	23	12,525	.....	156	497	37	11,835	Se 12,494	Ja 11,150	11,704	11,685	15	4	.....	20,270,194	
36 Cars, steam-railroad, not including operations of railroad companies.....	12	16,413	.....	140	679	55	15,539	Oc 18,585	My 12,640	16,750	16,687	63	.....	.....	29,725,689
37 Chemicals.....	15	258	3	21	40	20	174	Mh 183	Fe 151	171	156	14	1	.....	1,754,100		
38 Cleansing and polishing preparations.....	42	190	39	18	26	18	89	.....	.....	96	79	16	1	.....	334,326
39 Cleansing preparations.....	13	45	14	2	7	2	20	De 26	Ja 17	28	17	10	1	.....	87,025		
40 Polishing preparations.....	29	145	25	16	19	16	69	Au 73	De 65	68	62	6	.....	.....	207,301	
41 Cloth, sponging and refinishing.....	7	138	6	5	4	4	123	Jy 126	De 120	120	113	1	6	.....	28,365		
42 Clothing, men's.....	546	37,647	623	517	2,732	1,867	31,908	Je 32,957	No 30,900	32,138	15,438	16,160	149	391	36,999,260			
43 Clothing, men's, buttonholes.....	6	12	6	.....	.....	.....	6	Jy 7	Ja 4	7	3	4	.....	.....	4,000
44 Clothing, women's.....	227	8,637	267	237	431	372	7,330	.....	.....	7,595	2,500	4,993	9	93	5,077,059	
45 Regular factories.....	201	8,054	236	232	423	369	6,794	.....	.....	7,016	2,247	4,671	9	89	5,871,306	
46 Suits, skirts, cloaks, shirt waists, and dresses, except house dresses.....	147	6,088	176	167	356	308	5,081	Oc 6,060	Je 4,341	5,188	2,057	3,062	5	64	4,392,301			
47 Undergarments and petticoats.....	13	511	13	26	22	16	434	Mh 494	Au 371	413	41	365	2	5	470,725			
48 Wrappers, house dresses, and all other.....	41	1,455	47	39	45	45	1,279	No 1,405	Ja 1,107	1,415	149	1,244	2	20	1,008,280			
49 Contract work.....	26	581	31	5	8	3	536	.....	.....	579	253	322	.....	4	105,753
50 Suits, skirts, and cloaks.....	16	329	17	3	.....	.....	309	Se 395	Ja 231	336	195	141	.....	.....	29,540
51 Shirt waists, dresses, wrappers, and all other.....	10	254	14	2	8	3	227	Ap 252	Ja 197	243	58	181	.....	4	76,213		
52 Coffins, burial cases, and undertakers' goods.....	13	791	3	27	97	10	654	Fe 685	De 626	629	506	120	1	2	2,320,232			
53 Confectionery.....	131	5,907	78	197	453	316	4,863	.....	.....	5,349	2,384	2,569	13	333	8,841,019	
54 Confectionery and chewing gum.....	97	5,334	59	152	411	303	4,409	Oc 5,206	Jy 3,835	4,881	1,932	2,553	13	333	7,071,159			
55 Ice cream.....	31	573	19	45	42	13	454	Au 636	Ja 309	468	452	16	.....	.....	1,769,560	
56 Cooperage, hogsheds and barrels.....	28	1,194	16	43	19	11	1,105	Oc 1,178	Je 1,060	1,102	1,096	5	1	.....	1,931,224		
57 Copper, tin, and sheet-iron work.....	260	2,241	266	104	127	70	1,674	Au 1,778	Fe 1,545	1,718	1,690	17	11	.....	3,641,404		
58 Cutlery and edge tools.....	10	527	9	9	16	13	480	Oc 555	Jy 256	501	427	63	10	1	844,953			
59 Dairymen's, poultrymen's, and apiarists' supplies.....	7	221	4	9	8	13	187	Mh 221	Jy 159	194	188	6	.....	.....	699,310	
60 Druggists' preparations.....	29	485	11	32	117	99	226	Je 243	Au 209	224	139	84	1	.....	1,128,107		
61 Electrical machinery, apparatus, and supplies.....	125	7,140	42	288	958	344	5,508	Fe 5,829	De 5,133	5,219	4,207	999	33	10	15,323,517			
62 Electroplating.....	36	385	46	20	5	5	309	Fe 324	De 293	290	276	10	4	.....	161,237		

¹ Owned power only.² Includes rented power, other than electric.

MANUFACTURES—ILLINOIS.

55

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.										Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.		Primary horsepower.					Electric power generated in establishments reporting.				
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.	Total.	Steam engines. ¹			Internal-combustion engines. ²		Water wheels and motors. ¹	Electric (rented).		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																	
\$34,841,617	\$55,452,893	\$213,737,372	\$17,419,449	\$13,302,675	\$15,580,132	\$874,446,486	\$27,486,908	\$1,483,498,416	\$581,565,022	681,114	485,276	47,137	307	148,394	228,059	1	
35,446	14,346	282,145	2,000	7,723	2,330	306,235	6,918	840,795	527,642	242	10	24		208		2	
185,978	197,310	676,775	1,913	101,143	14,232	797,225	38,329	2,459,227	1,633,673	1,166	105	20		1,041	10	3	
95,412	96,072	430,724	600	45,608	5,798	1,299,232	20,427	2,240,906	921,247	446				446		4	
16,482	16,290	204,929	1,864	29,477	2,318	119,522	11,038	477,642	347,082	251	15	37		199		5	
36,337	31,441	202,486	4,107	31,079	2,109	686,798	6,632	1,308,418	614,987	213		5		208		6	
41,810	24,603	140,645	503	20,444	4,323	2,319,557	6,497	2,876,238	550,184	292	125			167	149	7	
292,334	295,369	352,829		147,815	39,562	3,035,671	95,763	7,904,730	4,773,296	2,951	2,724	15		212	1,572	8	
	312	22,979	50	2,216	412	21,695	495	73,901	51,711	21				21		9	
8,400	4,854	17,033		4,156	157	62,023	1,532	77,316	13,761	17		5		12		10	
18,520	68,933	80,513	43	7,930	2,871	292,256	4,712	552,933	255,965	184	58	20		106	6	11	
852	398	5,490		928	108	12,214	171	26,890	14,475							12	
210,983	154,385	1,392,082	7,703	172,629	11,813	1,504,907	37,385	4,170,850	2,628,558	1,186		15		1,171		13	
205,807	186,163	2,356,510	960	128,127	145,857	7,496,665	26,322	11,663,097	4,140,110	2,022	1,563	50	1	408	845	14	
34,816	25,111	140,806		17,773	1,670	244,783	6,088	577,038	326,167	210	40	15		155		15	
305,943	372,369	1,699,806	2,426	185,141	25,557	3,261,601	63,661	6,945,312	3,620,050	2,148	462	109		1,577	400	16	
186,953	149,885	1,802,925	1,246	89,630	44,538	4,395,426	24,524	7,486,648	3,066,698	7,893	7,310	75		508	599	17	
183,420	126,184	896,754	21,920	69,650	17,187	4,285,884	95,353	6,313,930	1,932,698	2,153	25	280		1,848		18	
390,305	1,215,705	5,091,013	3,832	606,990	166,216	16,791,000	626,647	34,217,248	16,799,601	6,543	2,860	61		3,622	1,695	19	
273,968	854,686	3,857,824	3,832	531,473	100,683	11,633,276	521,210	22,897,064	10,742,578	4,468	1,455	61		2,952	958	20	
116,307	361,019	1,233,189		75,517	65,533	5,157,724	105,437	11,320,184	6,057,023	2,075	1,405			670	737	21	
49,084	65,576	351,326	120,000	45,161	10,256	51,796	120,695	927,624	755,133	2,385	2,020	22	5	338	75	22	
17,900	9,319	175,945	2,933	11,299	1,339	353,697	5,170	691,198	332,331	104				104		23	
49,574	16,841	197,069	4,921	15,261	3,889	552,127	12,361	1,037,512	473,024	203	75	2		126		24	
38,862	29,034	41,836	9,113	18,640	2,830	1,089,478	7,712	1,347,098	249,908	233	63			170		25	
27,379	20,806	146,715	3,226	11,808	717	177,370	7,075	437,533	253,088	146				146		26	
		4,864		420	52	23,370	700	38,477	14,407							27	
13,012	4,889	56,976		2,620	520	35,666	1,555	167,096	129,875	58				58		28	
21,970	9,958	40,542		10,400	507	103,356	2,481	214,884	109,047	135				135		29	
11,275	19,368	100,148	766	11,004	691	55,887	5,663	244,424	182,874	128				128		30	
3,600	951	30,107		8,516	301	55,641	1,411	114,813	57,761	23				23		31	
145,710	175,709	1,295,358	37,344	89,000	57,248	2,473,634	67,152	4,989,377	2,448,591	4,581	3,380	59		1,142	2,197	32	
145,710	175,709	1,271,334	37,144	85,186	55,897	2,444,634	65,665	4,913,026	2,402,727	4,514	3,380	59		1,075	2,197	33	
		24,024	200	3,814	1,351	29,000	1,487	76,351	45,864	67				67		34	
215,134	501,824	8,260,288	59,748		34,573	6,645,936	443,508	16,687,929	9,598,485	13,150	12,413	12		725	8,508	35	
398,116	797,524	13,922,995		33,660	175,051	31,851,421	537,491	50,930,691	18,541,779	27,052	21,501	4,088	55	1,408	19,853	36	
48,176	60,958	112,424	360	11,629	11,846	1,007,030	56,529	1,816,571	753,012	950	405	320		225	5	37	
45,366	57,456	51,605	1,802	15,773	2,070	324,772	4,354	613,227	284,701	92	12			80		38	
1,666	4,816	10,801	502	6,325	165	33,158	829	84,234	50,247	25	12			13		39	
43,700	52,640	40,804	800	9,448	1,905	291,614	3,525	529,593	234,454	67				67		40	
9,113	2,028	86,005		14,970	300	400	1,632	159,895	157,863	35				35		41	
2,195,810	4,504,791	18,770,681	5,220,017	1,358,285	179,475	37,761,864	294,404	83,394,069	45,237,801	4,148	400	38		3,620	359	42	
528,229	612,943	3,248		480	24	721	340	8,931	7,870	6				6		43	
522,049	600,071	4,259,842	329,009	421,087	17,542	10,311,717	67,844	19,211,137	8,831,576	1,051				1,051		44	
406,521	513,434	3,977,904	329,009	406,378	16,985	10,203,070	61,354	18,705,638	8,441,214	978				978		45	
		3,276,302	328,559	327,448	14,173	8,006,452	46,760	14,934,701	6,881,489	614				614		46	
54,668	39,978	236,284		25,803	1,504	825,468	5,679	1,325,676	494,529	113				113		47	
60,860	46,659	465,318	450	53,127	1,308	1,371,150	8,915	2,445,261	1,065,196	251				251		48	
6,180	12,872	281,938		14,709	557	108,647	6,490	505,499	390,362	73				73		49	
5,400		187,648		7,050	183	7,059	3,230	243,742	235,453	32				32		50	
780	12,872	94,290		7,659	374	103,588	3,260	261,757	154,909	41				41		51	
97,086	198,638	440,165		28,434	12,500	1,052,378	18,518	2,262,058	1,191,162	1,100	675	33		392	134	52	
638,302	784,409	2,407,072	9,867	272,351	180,738	12,247,385	228,873	22,979,704	10,503,446	7,505	3,337	807	10	3,351	3,015	53	
550,672	716,463	2,026,265	8,790	235,371	170,424	10,844,198	167,147	20,348,661	9,337,316	4,546	3,062	140		1,338	2,468	54	
87,630	67,946	380,807	1,077	36,980	10,314	1,403,187	61,726	2,631,043	1,166,130	2,959	275	601	10	2,013	549	55	
109,273	30,718	627,508	6,993	24,889	13,547	2,549,939	24,366	3,675,528	1,101,223	2,067	1,916			151	20	56	
249,328	177,204	1,386,686	58,372	144,910	24,111	2,624,642	48,179	5,640,392	2,967,541	1,565	356	110		1,099	297	57	
30,974	28,373	211,844	325	3,789	2,917	204,928	12,120	611,025	393,977	635	575	15		45	114	58	
27,744	26,266	119,197	5,050	7,358	4,873	142,164	8,154	680,913	530,595	269	155			114	94	59	
86,677	241,389	162,118	9,089	21,640	8,718	447,997	12,654	1,380,809	920,158	595	503	31		61	64	60	
852,505	1,427,407	3,648,201	40,188	345,176	81,879	680,751	170,884	17,568,424	10,416,789	4,849	1,425	252		3,172	1,913	61	
32,172	7,548	236,479	2,281	34,453	758	75,393	10,150	487,360	401,817	439		84		355	3	62	

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.									WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.		
								Maximum month.	Minimum month.							

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

CHICAGO—Continued.																	
1	Emery and other abrasive wheels.....	5	85	3	7	10	4	41	My ^a	47	Oc	35	39	36	3		\$115,348
2	Engines, steam, gas, and water.....	9	983	2	20	76	12	853	Fe	988	Se	583	894	891	3		6,184,647
3	Engravers' materials.....	3	53			5		35	De	36	Ja	34	36	36			129,886
4	Engraving, steel and copper plate, including plate printing.....	45	1,708	38	73	102	80	1,415	De	1,400	Mh	1,343	1,462	1,030	347	40	2,853,087
5	Engraving, wood.....	12	262	8	12	41	11	190	Jy	221	Fe	173	193	191	2		143,589
6	Envelopes.....	15	900	4	45	74	53	724	Fe	747	Je	692	733	294	419	7	1,285,197
7	Fancy articles, not elsewhere specified.....	40	835	34	50	100	44	607					609	243	358	5	1,211,552
8	Beadwork.....	3	11				1	6	Mh ^a	8	Oc ^a	5	5	1	4		6,425
9	Metal and paper novelties.....	13	310	11	24	22	17	236	Oc	285	Ja	185	267	135	130	1	335,133
10	Celluloid, wood, and all other novelties.....	19	514	19	26	78	26	365	Se	445	Ja	301	337	107	224	4	869,994
11	Feathers and plumes.....	4	42	2	3	1	1	35	Oc ^a	39	Ja	26	37	6	30		19,393
12	Flags and banners.....	8	156	4	11	9	7	125	De	155	Fe	102	155	26	80		114,155
13	Flavoring extracts.....	19	263	7	27	59	39	131	Ap	157	De	103	108	62	45	1	787,863
14	Food preparations, not elsewhere specified.....	74	1,601	84	72	214	90	1,141					1,219	783	423	4	3,539,247
15	Breadstuff preparations, cereals, and table foods.....	4	38	1	2	3	1	31	Fe ^a	34	Au	28	30	22	8		95,363
16	Lard compounds and meat products.....	8	238	4	16	25	10	183	Se	235	Ja	152	184	108	73	1	695,716
17	Sausage casings.....	7	247	7	2	12	1	225	Ja	235	Mh	207	230	149	81		93,955
18	All other.....	55	1,078	72	52	174	78	702	Se	765	Ja	642	775	504	261	3	2,654,213
19	Foundry and machine-shop products.....	440	25,348	215	959	2,610	574	20,990					19,203	18,421	657	91	65,098,139
20	Boiler shops.....	7	70	9	3	5	1	52	Jy	63	Fe ^a	46	52	51	1		77,043
21	Foundries.....	36	9,252	10	205	1,042	54	7,941	Ap	8,398	De	7,177	7,198	6,953	229	16	18,244,319
22	Machine shops.....	397	16,026	196	751	1,563	519	12,997	Mh	14,028	De	11,510	11,953	11,417	427	75	40,770,777
23	Fur goods.....	84	479	71	35	44	29	300	No	447	Ap	188	430	236	189	2	1,086,649
24	Furnishing goods, men's.....	30	1,303	25	32	130	66	1,020	De	1,084	Je	946	1,057	150	878	2	1,922,218
25	Furniture.....	212	11,247	151	419	678	266	9,733	My	10,496	Jy	7,644	9,727	9,397	236	91	18,820,032
26	Wood, metal, and rattan and willow.....	150	9,189	106	316	464	192	8,111	Mh	8,496	Jy	7,644	8,211	7,922	199	88	15,819,139
27	Store and office fixtures.....	62	2,058	45	103	214	74	1,622	My	1,775	De	1,443	1,516	1,475	37	3	3,000,893
28	Furs, dressed.....	3	52	1	5	3	1	42	No	48	Mh	37	44	38	6		27,840
29	Galvanizing.....	5	85	9	5	2		69	Mh ^a	78	Ja	58	64	64			155,750
30	Gas and electric fixtures.....	43	1,613	20	85	181	73	1,254					1,265	1,033	217	9	2,758,704
31	Gas and electric.....	36	1,471	20	71	168	58	1,154	Fe	1,238	Jy ^a	1,084	1,151	921	217	7	2,444,628
32	All other.....	7	142		14	13	15	100	Ja	117	Je	82	114	112			314,076
33	Gas machines and gas and water meters.....	7	292	1	18	132	19	122	Fe	136	De	114	114	114			1,383,995
34	Glass, cutting, staining, and ornamenting.....	47	976	35	52	49	30	810	Oc	837	Jy	767	852	729	95	20	950,127
35	Gold, leaf and foil.....	6	166	2	14		4	146	No	159	Je ^a	136	156	72	67	7	97,430
36	Grease and tallow, not including lubricating greases.....	8	723	4	19	89	28	583					544	516	25	3	2,414,713
37	Tallow.....	4	645	1	15	87	27	515	Ap	543	No	477	479	451	25	3	2,200,882
38	Soap stock and all other.....	4	78	3	4	2	1	68	Ap	74	No	64	65	65			213,831
39	Hand stamps.....	20	265	15	19	38	19	174	My	188	Se	161	170	127	38	5	386,227
40	Hardware.....	51	2,189	22	95	131	95	1,846					1,708	1,529	166	13	5,244,719
41	Locks, hinges, and other builders' hardware.....	11	404	2	19	30	20	333	Mh	351	De ^a	314	316	306	3	7	705,831
42	All other.....	40	1,785	20	76	101	75	1,513	Fe	1,762	Se	1,382	1,392	1,223	163	6	4,538,888
43	Hat and cap materials.....	3	12			1	1	8	(^a)	8	(^a)	8	8	2	6		5,664
44	Hats and caps, other than felt, straw, and wool.....	36	564	46	23	20	10	465	Je	495	Ja	393	458	316	137	5	288,116
45	Hats, fur-felt.....	6	38	5	5			28	Ap	33	De	21	25	13	12		39,486
46	Hosiery and knit goods.....	33	1,238	22	41	42	44	1,089	No	1,163	Jy	992	1,178	233	888	5	2,450,074
47	House-furnishing goods, not elsewhere specified.....	40	710	37	45	55	78	495	Mh	542	Jy	448	474	214	240	6	1,361,690
48	Ice, manufactured.....	18	507	1	36	19	3	448	Jy	566	De	337	391	391			3,335,154
49	Ink, printing.....	9	83	7	10	12		54	My ^a	56	De ^a	53	55	50	1		363,202
50	Iron and steel, steel works and rolling mills.....	7	5,356	195	433	65		4,663	Mh	5,622	De	3,246	3,623	3,623			31,497,170
51	Iron and steel forgings, not made in steel works or rolling mills.....	10	515	5	17	15	10	468	Au	552	No	339	399	399			1,785,015
52	Japanning.....	3	65	2	3	1		59	My	73	De	44	50	48	2		29,031
53	Jewelry.....	89	1,312	100	60	134	89	929	Ja	966	Jy	889	937	814	111	12	2,155,773
54	Jewelry and instrument cases.....	8	254	5	9	2	4	234	Ja	260	Se	216	238	83	133	7	143,705
55	Lapidary work.....	6	42	2	4	7	1	28	Oc	37	Mh	23	34	34			181,757
56	Leather goods, not elsewhere specified.....	33	513	24	36	31	18	404	Fe	421	De	363	414	271	132	4	694,373
57	Leather, tanned, curried, and finished.....	24	2,513	22	49	115	16	2,311	Fe	2,478	Oc	2,106	2,593	2,587	3	3	14,942,269

^a Owned power only.^a Includes rented power, other than electric.

MANUFACTURES—ILLINOIS.

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OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$10,380	\$12,219	\$41,416		\$5,040	\$665	\$64,645	\$2,213	\$194,383	\$127,525	57					57	1
48,332	83,866	718,693	\$1,470	7,608	25,599	976,219	39,414	1,795,009	779,370	694	33	44			617	5
20,450	10,104	27,776		6,021	958	237,768	4,111	339,390	97,511	185					185	3
203,776	194,671	945,955	120,796	77,949	12,848	865,954	32,312	3,142,050	2,244,384	1,296	750	1			545	692
58,233	44,294	238,249	3,674	14,069	403	66,492	1,101	490,224	422,631	13					13	5
106,670	124,943	395,184	3,972	50,138	4,459	784,317	15,383	1,830,473	1,030,773	561					561	6
78,825	215,979	408,662	18,765	42,894	2,310	1,077,829	15,345	2,157,209	1,064,035	371		43			328	7
	365	2,247	300	978	21	6,297	49	13,300	6,954	1					1	8
38,285	33,742	122,751	17,335	15,858	1,344	277,692	7,317	617,291	332,282	277		40			237	9
40,540	181,872	283,664	1,130	26,058	945	793,840	7,979	1,526,618	724,799	93		3			90	10
3,305	1,024	15,557		2,535	84	21,451	330	59,783	38,002	1					1	11
12,666	8,929	56,040	1,550	12,265	294	128,651	1,302	288,820	153,867	25					25	12
67,769	86,326	75,450		23,316	3,638	654,803	8,007	1,345,551	682,681	259	90	32			137	13
185,667	339,041	620,177	1,770	101,434	27,898	7,389,733	83,486	10,047,716	2,574,497	2,699	1,201	311			1,187	427
4,141	4,519	18,024		6,789	368	151,776	2,889	193,702	39,037	162					162	15
45,330	55,883	87,328		12,768	8,043	2,228,526	11,862	2,754,008	513,615	383	210	6			167	16
4,820	9,648	123,563		9,450	849	328,266	7,579	595,750	259,905	107	52				55	17
131,376	268,991	391,262	1,770	72,427	18,638	4,681,165	61,156	6,504,261	1,761,940	2,047	939	305			803	422
2,896,232	3,561,898	14,819,337	408,973	812,246	515,195	21,252,855	1,403,342	57,005,703	34,349,506	41,614	18,976	1,432	20		21,136	11,664
5,200	3,840	40,765	1,494	4,450	839	41,051	2,804	130,701	89,846	108	10				98	20
701,078	1,260,549	5,185,544	21,655	232,119	246,223	6,471,102	831,043	18,403,280	11,161,135	14,932	3,240	87			11,605	927
2,189,954	2,297,509	9,593,028	385,824	575,677	268,133	14,740,702	569,495	38,411,722	23,101,525	26,574	15,726	1,395	20		9,433	10,737
55,156	56,708	219,053	24,108	93,115	2,227	864,415	5,426	1,604,873	735,032	141		55			86	21
90,116	246,548	544,442	3,241	74,091	10,189	2,258,748	6,594	3,579,603	1,314,261	472	406				72	269
1,040,929	963,291	6,356,699	38,158	479,148	109,088	10,457,420	277,767	23,349,811	12,614,624	18,551	12,125	2,935			3,501	3,838
813,550	720,943	5,060,363	28,466	332,842	94,858	8,581,249	222,922	18,635,990	9,831,818	13,188	10,255	254			2,679	3,477
227,379	242,348	1,296,336	9,692	146,306	14,230	1,876,171	54,844	4,713,821	2,782,806	5,373	1,870	2,681			822	361
14,860	3,520	24,003		3,000	210	7,379	1,880	65,336	56,077	40					40	28
21,344	7,561	40,058	213	3,180	2,005	124,568	8,158	245,144	112,418	94	25	65			4	29
232,810	225,113	898,968	21,590	106,429	10,459	1,981,285	39,812	4,075,405	2,054,308	1,317	720	121			476	420
202,285	201,355	822,609	20,610	91,792	9,235	1,824,891	34,518	3,689,458	1,830,049	1,171	720	71			380	420
30,525	23,758	76,359	980	14,637	1,224	156,394	5,294	355,947	224,259	146		50			96	32
62,686	162,984	108,388	1,550	3,660	6,365	307,346	2,929	991,193	680,918	27					27	33
106,746	71,275	555,533	3,357	64,113	4,386	826,618	22,925	1,836,266	980,723	315	30	8			277	34
16,350	3,504	73,709	4,921	3,302	363	145,434	1,385	256,798	109,979	66	50				16	5
78,795	88,727	431,541		2,200	17,325	3,007,431	106,330	3,974,765	861,004	1,361	1,306				55	1,077
71,411	85,763	378,140		1,000	14,783	2,869,861	98,677	3,758,871	790,333	1,220	1,180				40	1,027
7,384	2,964	53,401		1,200	2,542	137,570	7,653	215,894	70,671	141	126				15	50
43,792	39,174	119,064	100	26,132	1,688	162,053	3,869	527,160	361,238	152		17			135	39
270,908	220,669	1,172,504	16,424	69,088	34,665	2,148,935	93,284	5,141,763	2,899,544	2,593	1,160	267			1,106	692
42,145	56,467	223,226	5,444	18,108	2,492	281,662	15,791	786,323	488,870	304	85	29			190	41
228,763	164,202	949,278	10,980	50,980	32,173	1,867,273	77,493	4,355,440	2,410,674	2,289	1,075	238			976	662
	208	5,500		1,200	14	690	139	13,400	12,571	1					1	43
34,560	21,614	304,967		34,243	964	511,387	5,297	1,126,735	610,051	81					81	44
8,782		20,222		2,820	156	41,253	1,074	90,655	48,328	16					16	45
92,352	84,638	483,724	4,552	67,858	9,598	1,239,738	22,548	2,325,212	1,032,926	468	85	25			358	46
138,581	201,837	250,639	24,695	44,619	9,190	1,500,005	11,643	3,054,243	1,542,595	688	475	38			175	115
72,857	24,625	402,635		8,203	20,557	153,869	301,591	1,334,494	879,034	10,732	6,430	200	115		3,987	880
41,147	20,507	37,690		7,285	2,583	249,238	10,510	503,538	243,790	345					345	49
514,221	474,470	4,284,611	50	4,000	135,059	16,485,432	2,245,800	27,001,775	8,270,543	97,493	85,204	12,085			204	55,571
49,775	24,871	398,250	243	17,738	13,198	628,585	99,755	1,289,046	560,706	1,699	666				1,033	103
10,620	1,040	39,625		4,287	182	8,198	1,377	81,548	71,973	5					5	52
169,592	219,773	751,411	15,360	98,200	7,457	1,196,634	15,107	3,135,945	1,924,204	514	150	7			357	75
17,793	3,102	114,316		12,872	825	222,651	2,295	390,561	165,065	54					54	54
5,400	3,664	27,242	1,975	7,010	526	69,130	850	127,176	57,186	21					21	55
81,302	58,987	209,707		40,297	3,105	1,122,401	10,927	1,733,982	600,654	524	250				274	56
177,879	134,387	1,333,140		89,253	43,832	12,374,993	137,068	15,662,742	3,150,681	7,128	6,645	50			433	448

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—ILLINOIS.

TABLE 44.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																			
CHICAGO—Continued.																			
1	Liquors, malt.....	37	4,785	4	253	525	30	3,973	Je	4,277	Fe	3,806	3,901	3,879	22			\$42,088,471	
2	Lithographing.....	34	1,150	14	54	99	39	944	My	970	Fe	914	956	810	136	8	2	2,095,232	
3	Looking-glass and picture frames.....	52	2,093	31	76	157	97	1,732	Mh	1,802	De	1,568	1,814	1,627	156	26	5	2,707,205	
4	Lubricating greases.....	5	45		10	14	2	19	Mh ^a	20	Ja ^a	18	19	19				85,878	
5	Lumber and timber products.....	4	188	2	9	14	2	161	Je	185	Se	124	172	172				1,216,924	
6	Lumber, planing-mill products, not including planing mills connected with sawmills.....	159	6,460	79	279	439	129	5,534	Au	5,812	Ja	5,277	5,418	5,363	3	46	6	12,476,456	
7	Malt.....	11	501		25	68	5	403	Fe	484	Au	284	410	410				10,541,782	
8	Marble and stone work.....	110	1,570	126	98	63	27	1,256	Au	1,358	Fe	1,152	1,209	1,206	3			2,804,252	
9	Mattresses and spring beds, not elsewhere specified.....	60	1,130	62	44	94	40	890	My	939	De	829	836	702	132	2		1,384,785	
10	Mineral and soda waters.....	63	544	67	40	45	10	382	Jy	456	Fe	333	355	335	20			736,804	
11	Mirrors, framed and unframed.....	10	288	7	18	23	9	231	No	245	Jy	216	235	232	2	1		391,098	
12	Models and patterns, not including paper patterns.....	58	421	60	21	12	6	322	Mh	379	Oc	271	289	262	23	4		316,840	
13	Musical instruments, organs.....	6	30	6	4		1	19	Ap	21	Oc ^a	18	18	16	2			57,455	
14	Musical instruments, pianos.....	30	4,782	6	87	325	190	4,174	Ap	4,473	Oc	3,852	4,007	3,806	144	46	11	24,348,861	
15	Musical instruments, piano and organ materials.....	10	828	3	33	21	14	757	Ja	867	Au ^a	682	686	501	170	14	1	1,544,067	
16	Paints.....	31	2,529	7	117	749	127	1,529	Ap	1,717	No	1,361	1,347	1,198	148	1		14,175,253	
17	Paper goods, not elsewhere specified.....	21	501	9	33	59	25	375	Au	448	Ja	298	378	168	204		6	780,774	
18	Patent medicines and compounds.....	190	1,831	102	175	487	342	725	Mh	803	Au	660	672	388	248	10	26	3,515,508	
19	Paving materials.....	4	539		10	18	1	510	Au	899	Fe	159	808	808				1,269,717	
20	Perfumery and cosmetics.....	53	592	35	43	27	129	358	Oc	375	Ja	338	353	89	248	7	9	526,382	
21	Photographic apparatus.....	13	343	11	12	44	42	234					230	179	49		2	972,119	
22	Cameras and motion-picture machines.....	6	311	4	8	44	38	217	Ja	239	No	198	209	171	36		2	952,966	
23	All other apparatus and parts.....	7	32	7	4		4	17	Au ^a	19	Ap ^a	15	21	8	13			19,153	
24	Photographic materials.....	5	337	2	16	32	22	265	Au	314	De	200	200	102	97	1		866,918	
25	Photo-engraving.....	23	1,211	8	59	186	51	907	Fe	951	Se	864	932	874	39	17	2	1,016,250	
26	Pickles, preserves, and sauces.....	44	1,225	31	51	120	36	987					1,005	477	485	8	35	3,033,632	
27	Preserves.....	7	228	3	7	10	2	206	Je	292	Ja	146	166	71	95			473,507	
28	Pickles and sauces.....	37	997	28	44	110	34	781	Oc	859	Je	705	839	406	390	8	35	2,560,125	
29	Plumbers' supplies, not elsewhere specified.....	14	2,598	3	37	211	41	2,306	Fe	2,452	De	2,135	2,135	2,051	81	3		6,429,766	
30	Pocketbooks.....	3	27					23	Oc ^a	31	Ja	11	31	31				6,300	
31	Printing and publishing, book and job.....	904	21,857	757	958	1,766	1,410	16,966					16,862	12,640	3,721	356	145	32,959,899	
32	Job printing.....	752	18,071	667	745	1,045	561	15,053	Mh	15,504	My ^a	14,847	15,025	11,375	3,204	337	109	21,378,710	
33	Book publishing and printing, including linotype work and typesetting.....	152	3,786	90	213	721	849	1,913	Au	2,044	De	1,789	1,837	1,265	517	19	36	11,581,159	
34	Printing and publishing, newspapers and periodicals.....	440	10,833	206	715	3,581	1,886	4,445					4,372	3,936	396	33	7	22,565,351	
35	Printing and publishing.....	33	5,560	13	180	2,107	566	2,694	Ja	2,770	No	2,635	2,648	2,545	100	3		15,012,212	
36	Printing, publishing, and job printing.....	74	2,187	56	111	233	297	1,490	Fe	1,537	Au	1,444	1,474	1,141	296	30	7	3,272,012	
37	Publishing without printing.....	333	3,086	137	424	1,241	1,023	261	Se	288	Ja	234	250	250				4,281,127	
38	Printing materials.....	11	128	7	11	24	9	77	Oc	87	Jy	70	77	76	1			487,196	
39	Roofing materials.....	12	739	2	40	100	33	564	My	629	Ja	484	542	539	1	2		3,974,628	
40	Saddlery and harness.....	97	380	95	11	16	6	252	My	277	Se	210	278	254	22	2		501,958	
41	Sausage.....	21	358	17	15	24	6	296	Au	347	Mh	268	282	262	20			739,687	
42	Shipbuilding, wooden, including boat building.....	8	70	6	5	4	2	53	Ap	86	Se	22	50	50				178,698	
43	Shirts.....	17	555	8	24	20	11	492	Ap	564	Au	411	460	105	351	1	3	324,456	
44	Signs and advertising novelties.....	136	2,387	118	126	302	141	1,700					1,788	1,364	375	24	25	6,925,700	
45	Electric signs.....	13	392	10	37	114	41	190	Ap	209	Ja ^a	177	201	181	20			2,037,731	
46	Other signs.....	87	936	86	38	89	33	690	Je	779	Mh	646	737	705	22	10		3,127,667	
47	Advertising novelties.....	36	1,059	22	51	99	67	820	No	885	Ja	768	850	478	333	14	25	1,760,302	
48	Slaughtering and meat packing.....	37	33,468	10	277	5,865	908	26,408	De	30,322	My	23,740	29,432	26,323	3,055	16	38	194,434,335	
49	Smelting and refining, not from the ore.....	13	184	13	15	21	9	126	Mh	133	Au ^a	118	130	129				1,595,569	
50	Soap.....	23	3,068	10	67	681	194	2,116	Mh	2,196	De	2,045	2,066	1,461	524	21	60	12,144,094	
51	Soda-water apparatus.....	7	1,221	4	27	133	68	989	Ap	1,115	Oc	888	914	903	11			3,885,099	
52	Stamped and enameled ware.....	14	445	7	19	21	10	388	My ^a	484	No	303	364	245	118	1		884,548	
53	Statuary and art goods.....	13	514	7	16	32	9	450	No	471	Ja	422	468	466	2			783,197	
54	Steam fittings and steam and hot-water heating apparatus.....	24	707	4	64	77	24	538	Ja	564	My	508	524	522		2		1,993,427	
55	Steam packing.....	15	212	6	24	10	8	164	De	202	Jy	126	202	193	3	6		264,359	
56	Stencils and brands.....	7	25	7	1		1	16	(^a)	16	(^a)	16	16	12	4			19,930	
57	Stereotyping and electrotyping.....	25	935	8	51	146	25	705	Ja	716	De	695	684	682	1	1		812,634	
58	Stoves and hot-air furnaces, except gas and oil stoves.....	25	943	21	52	85	41	744					674	671		3		3,286,737	
59	Stoves and ranges.....	16	836	16	45	78	38	659	My	816	Au ^a	449	584	581		3		3,117,105	
60	Hot-air furnaces and fireless cookers.....	9	107	5	7	7	3	85	Se	106	Je	70	90	90				169,632	

¹ Owned power only.² Includes rented power, other than electric.

MANUFACTURES—PENNSYLVANIA.

63

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

\$61,991,083	\$82,619,422	\$527,952,517	\$20,604,279	\$15,208,457	\$37,247,555	\$1,549,582,854	\$139,337,862	\$2,832,349,437	\$1,143,428,721	3,540,858	2,922,616	237,728	45,325	344,189	1,184,962	1
143,443	302,562	1,121,427	240	1,392	26,551	1,801,404	105,890	4,843,655	2,936,361	4,472	2,985	172	79	1,236	1,501	2
30,363	9,629	100,208	97	300	482	174,122	5,444	403,080	224,114	56	15	12		29	14	3
10,000	17,965	152,917	2,666	10,477	373	329,549	4,854	687,852	353,449	33		5		28		4
7,178	4,057	48,454	915	10,588	503	42,126	1,134	166,292	123,032	36		9		27		5
40,574	23,239	316,846	22,506	14,814	2,999	372,839	9,150	935,794	553,805	1,279	804	329	40	106	156	6
18,481	35,238	30,639		4,145	752	136,153	4,080	242,333	102,100	156	20	45		91		7
65,613	34,545	278,463	4,315	2,724	4,366	774,775	26,663	1,074,959	873,521	1,216	655	1		560	158	8
145,450	112,268	977,079	20,288	79,490	10,158	1,313,594	41,110	3,211,448	1,856,744	2,025	828	149		1,048	553	9
143,883	212,978	1,159,694	3,624	48,714	17,025	4,124,102	79,675	6,872,635	2,668,858	3,105	1,865	153		1,087	1,635	10
80,855	94,256	1,285,035	67,596	150,215	11,213	1,183,300	44,367	3,661,276	2,433,609	1,561	29	439	10	1,083	31	11
16,146	28,594	152,296	1,987	22,467	1,232	496,418	5,161	919,777	418,198	119		15		104		12
44,812	39,275	101,266		7,144	1,421	1,146,984	11,536	1,510,123	351,603	180	117	39		24	30	13
43,062	32,653	80,951		5,446	1,160	990,906	8,712	1,290,278	290,660	160	117	25		18	30	14
1,000	6,052	16,641		900	182	99,797	2,119	143,425	41,509	16		14		2		15
750	570	3,674		798	79	56,281	705	76,420	19,434	4				4		16
17,164	7,571	95,648	8,880	4,520	1,306	513,697	3,635	758,841	241,509	239	185	43		11	15	17
1,876	6,191	4,183		3,594	59	24,424	174	45,904	21,306	7		2		5		18
8,612	9,479	120,780	150	8,338	912	183,045	3,744	443,171	256,382	170	85	12		73		19
46,862	60,643	128,606		22,132	3,062	1,285,700	9,530	1,775,296	480,066	310	185	36		89	40	20
18,820	31,675	57,000		17,540	2,369	335,674	6,006	740,716	399,036	421	410			11	130	21
	9,645	28,528		3,860	1,289	90,784	1,013	147,301	55,504	48		12		36		22
25,361	25,099	32,503	350	3,301	689	306,924	9,869	462,213	145,420	210	201	6		3		23
1,000	880	6,841		444	350	49,087	550	79,587	29,950	28		10		18		24
141,944	122,514	1,008,196	37,774	119,353	3,004	1,315,848	24,000	3,367,249	2,027,401	1,102	301	209		592	111	25
17,900	10,627	69,648		3,845	1,481	855,629	1,962	1,041,864	184,273	71		10		61		26
1,600	1,000	24,582	92	2,445	186	43,321	2,318	102,854	57,215	10				10		27
709,571	586,629	6,118,873	49,569	110,053	32,295	16,411,197	112,932	27,844,752	11,320,623	6,271	4,454	255		1,562	1,175	28
37,156	26,608	562,158	559	11,853	4,379	1,181,944	26,256	2,123,876	915,676	1,840	1,272	110		458	39	29
287,166	167,027	1,825,744	2,379	169,882	14,649	2,909,632	67,699	6,545,632	3,588,601	2,427	1,273	298	15	841	154	30
287,166	166,227	1,820,318	2,379	169,086	14,649	2,905,068	67,484	6,532,419	3,559,867	2,427	1,273	298	15	841	154	31
	800	5,426		796		4,564	215	13,513	8,734							32
125,298	66,296	886,863	5,393	23,594	16,196	3,043,496	27,213	4,652,335	1,582,126	6,022	4,742	95	15	1,170	135	33
342,603	235,025	1,259,963	16,234	32,137	33,418	6,964,783	158,430	9,779,626	2,656,413	4,578	2,505	806	35	1,232	578	34
274,290	160,522	1,011,352	16,234	26,575	25,251	5,477,256	126,233	7,827,374	2,223,882	2,739	1,170	623	35	911	428	35
36,833	61,952	170,729		4,072	5,624	1,324,537	23,855	1,655,329	306,937	1,493	1,025	175		293		36
31,480	12,551	77,882		2,490	1,543	162,990	8,342	296,923	125,591	346	310	8		28	150	37
529,284	1,672,685	8,514,007	14,146	514,495	225,643	30,633,339	1,052,035	54,139,905	22,454,532	14,597	5,035	1,668	2	7,892	3,948	38
148,803	709,938	956,769		49,480	45,518	3,987,921	83,406	7,673,687	3,602,360	1,777	1,509	20		248	882	39
380,481	962,747	7,557,238	14,146	465,015	180,125	26,645,418	968,629	46,466,219	18,852,172	12,820	3,526	1,648	2	7,644	3,066	40
1,045,650	535,433	8,869,014	113,073	67,483	199,690	4,579,605	3,452,803	22,730,973	14,698,565	69,310	53,706	6,875	25	8,704	2,369	41
421,965	163,071	4,184,598	81,766	55,655	83,728	1,292,281	2,017,558	9,998,973	6,689,134	39,677	27,688	5,235	25	6,729	566	42
57,562	22,891	578,333	4,398	12	10,893	139,148	146,127	1,197,657	912,382	3,135	3,060	25		50	6	43
505,096	303,296	3,753,483	9,261	7,492	97,706	2,911,742	1,188,735	10,561,537	6,461,060	24,093	21,683	1,205		1,805	1,623	44
17,504	19,158	102,391		364	970	77,632	22,378	274,899	174,889	196	105			91		45
43,523	27,017	250,209	17,648	3,960	6,393	158,802	78,005	697,907	461,100	1,609	1,170	410		29	174	46
28,368	36,089	264,500	850	8,374	4,862	748,983	9,346	1,259,171	500,842	456	78	145		233	30	47
28,368	36,089	256,070	850	7,684	4,843	729,943	9,051	1,221,567	482,573	451	78	145		228	30	48
		8,430		690	19	19,040	295	37,604	18,269	5				5		49
45,910	28,602	203,691		17,611	1,818	590,753	6,309	1,137,491	540,429	273	146	29	8	90	9	50
19,650	14,259	88,632		9,022	399	331,231	2,283	596,899	263,385	73	6	18	8	41	1	51
26,260	14,343	115,009		8,589	1,419	259,522	4,026	540,592	277,044	200	140	11		49	8	52
66,590	35,268	409,708	8,903	13,124	13,929	7,272,541	101,722	8,619,651	1,245,388	5,278	4,600	352	92	234	54	53
63,646	33,167	476,649	9,514	27,965	4,356	843,163	23,823	1,741,507	874,521	1,318	1,150	66		102		54
28,661	8,067	133,358	2,622	608	1,873	749,455	10,239	1,119,963	360,269	1,234	1,128	51	6	49		55
28,424	8,067	129,553	2,622	596	1,797	744,550	9,045	1,107,254	353,659	1,214	1,128	37		49		56
237		3,805		12	76	4,905	1,194	12,709	6,610	20		14				57
5,356	12,450	86,298		12,376	413	120,141	2,739	317,748	194,868	258	25	20		213		58
82,518	88,114	236,099		8,500	5,057	968,095	10,633	1,512,419	533,691	780	650	110		20	312	59
515,277	427,759	4,798,257	340,350	104,845	66,094	14,138,339	279,201	23,099,647	8,634,107	13,586	11,013	588		1,985	3,329	60
13,144	15,481	175,741	4,496	12,236	1,954	319,858	7,201	734,764	407,705	402	88	133		176	25	61
92,067	117,133	1,198,925	1,155	15,835	15,835	1,849,945	124,649	4,084,277	2,109,683	5,029	4,129	585	19	296	1,226	62
30,480	31,214	236,404		2,460	2,921	456,206	7,776	976,137	512,155	356	280	25		51	172	63
204,607	147,372	2,581,202	22,290	89,991	42,526	3,347,195	120,046	8,177,860	4,710,119	5,877	2,316	1,571	84	1,906	844	64
201,435	139,726	2,442,690	21,611	81,504	39,624	3,239,023	113,555	7,798,032	4,445,454	5,597	2,241	1,441	84	1,831	813	65
3,172	7,646	138,512	679	8,487	2,902	108,172	6,491	379,328	264,66							

MANUFACTURES—PENNSYLVANIA.

TABLE 59.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	Cars, steam-railroad, not including operations of railroad companies.	12	11,205	11	164	991	84	9,955	Ja 13,060	My 7,962	9,449	9,422	24	3	.....	\$32,446,140		
2	Cement.....	26	9,192	.....	156	982	144	7,910	Se 8,483	No 7,130	8,129	8,088	3	38	.....	60,948,356	
3	Cheese.....	83	242	132	11	13	2	84	Je ¹ 113	Ja ³ 45	112	108	4	.....	.....	440,614	
4	Chemicals.....	39	5,276	8	100	335	85	4,748	Ja 4,905	Jy 4,605	4,809	4,147	548	28	86	29,527,205			
5	Chocolate and cocoa products.	7	2,121	6	24	285	50	1,756	Oc 1,852	Jy 1,553	1,715	1,003	656	24	32	8,495,134			
6	Cleansing and polishing preparations.	41	225	39	23	32	18	113	.....	.....	113	69	41	2	1	439,802	
7	Cleansing preparations.....	18	111	14	14	15	10	58	Ap 64	Jy 53	57	33	24	.....	.....	177,220	
8	Polishing preparations.....	23	114	25	9	17	8	55	Fe 61	My ³ 51	56	36	17	2	1	202,582			
9	Clothing, horse.....	10	315	9	8	30	10	258	Fe 271	De 225	242	94	145	.....	.....	601,798	
10	Clothing, men's.....	504	12,341	719	180	914	292	10,236	.....	.....	10,631	5,137	5,273	79	142	16,798,163	
11	Regular factories.....	231	8,270	359	166	912	285	6,548	.....	.....	6,683	3,126	3,377	70	110	16,418,029	
12	Men's and youths'.....	209	7,887	324	160	898	280	6,225	Fe 6,615	Oc 5,807	6,349	3,011	3,165	69	104	15,832,268			
13	All other.....	22	383	35	6	14	5	323	Je 353	De 266	334	115	212	1	6	585,761			
14	Contract work.....	273	4,071	360	14	2	7	3,688	.....	.....	3,948	2,011	1,896	9	32	380,134	
15	Men's and youths'.....	266	3,923	350	12	2	7	3,552	Mh 3,667	Jy 3,470	3,804	1,940	1,823	9	32	372,255			
16	Boys'.....	7	148	10	2	.....	.....	136	Fe 148	De 115	144	71	73	.....	.....	7,870
17	Clothing, men's, buttonholes.....	15	183	20	.....	.....	.....	163	Je ³ 165	Ja ³ 162	163	47	108	.....	.....	37,802
18	Clothing, women's.....	483	19,600	715	293	910	465	17,217	.....	.....	17,414	5,203	11,982	27	202	14,117,695	
19	Regular factories.....	437	18,780	652	286	906	457	16,479	.....	.....	16,548	4,987	11,336	25	200	14,006,800	
20	Suits, skirts, and cloaks.....	190	6,041	301	106	340	169	5,125	Oc 5,870	De 4,387	5,230	3,303	1,879	15	33	4,295,338			
21	Shirt waists and dresses, except house dresses.	161	9,171	253	113	418	183	8,204	Mh 9,203	Jy 7,043	8,307	1,334	6,880	9	84	6,397,690			
22	Undergarments and petticoats.	30	2,066	31	39	96	62	1,838	Mh 1,988	Jy 1,685	1,768	166	1,541	.....	61	2,161,404		
23	Wrappers and house dresses.	21	736	25	18	19	18	656	Ap 739	Au 561	663	108	550	1	4	545,199			
24	All other.....	35	766	42	10	33	25	656	Ap 766	De 542	580	76	496	.....	18	607,220		
25	Contract work.....	46	820	63	7	4	8	738	.....	.....	866	216	646	2	2	110,835	
26	Suits, skirts, and cloaks.....	23	261	33	1	3	2	222	Oc 238	Ap 202	234	164	69	1	.....	29,830		
27	Shirt waists and dresses, except house dresses.	13	294	19	3	1	2	269	Mh 349	Au 130	352	37	315	.....	.....	43,712	
28	Undergarments, petticoats, wrappers, and house dresses.	5	234	6	3	.....	4	221	My 243	De 152	228	9	217	.....	2	32,703	
29	All other.....	5	31	5	.....	.....	.....	26	Ja ³ 49	Se ³ 8	52	6	45	1	.....	4,500
30	Coffee and spice, roasting and grinding.	77	1,048	79	54	233	96	586	.....	.....	561	322	216	14	9	2,454,231	
31	Coffee.....	72	707	75	41	151	86	354	Mh 365	Jy 344	360	205	154	1	.....	2,232,910		
32	Spice.....	5	341	4	13	82	10	232	Ja 249	De 201	201	117	62	13	9	221,321			
33	Coffins, burial cases, and undertakers' goods.	32	1,585	24	53	103	23	1,382	Mh 1,417	Fe 1,354	1,379	1,052	296	24	7	3,614,024			
34	Coke, not including gas-house coke.	108	11,307	34	337	988	127	9,871	Mh 11,619	De 8,365	9,137	9,051	3	83	.....	68,525,604		
35	Collars and cuffs, men's.....	4	38	4	2	6	2	24	Fe ³ 25	De 21	21	5	16	.....	.....	82,279	
36	Condensed milk and milk products, other than butter and cheese.	17	647	29	36	48	22	512	My 575	Fe 451	486	399	83	2	2	2,640,210			
37	Confectionery and ice cream.	657	9,950	719	261	516	312	8,142	.....	.....	8,952	4,070	4,329	148	405	16,602,974	
38	Confectionery.....	276	7,408	293	166	379	209	6,361	Oc 7,311	Je 5,515	7,044	2,522	4,021	109	392	9,954,930			
39	Chewing gum.....	5	122	7	7	4	4	104	Se 138	Ja 45	204	85	103	4	12	473,592			
40	Ice cream.....	376	2,420	426	88	130	99	1,677	Jy 2,038	Fe 1,435	1,704	1,463	205	35	1	6,174,452			
41	Cooperage.....	99	1,513	95	37	31	9	1,341	.....	.....	1,282	1,200	2	80	.....	3,269,853
42	Hogsheads and barrels.....	81	1,187	75	24	26	8	1,054	Mh 1,103	De 984	991	935	.....	56	.....	2,805,212	
43	All other.....	18	326	20	13	5	1	287	Ja 303	No 252	291	265	2	24	.....	464,041		
44	Copper, tin, and sheet-iron work.....	361	4,510	444	158	249	96	3,563	My 3,725	Mh 3,465	3,560	3,357	151	34	18	7,202,216			
45	Cordage and twine.....	17	1,947	8	40	41	9	1,849	Fe 1,969	De 1,749	1,850	963	792	48	47	5,985,583			
46	Cordials and flavoring sirups.....	6	40	6	5	7	1	21	Je ³ 23	My 18	21	14	5	.....	.....	106,171	
47	Cork, cutting.....	10	1,885	3	21	52	22	1,787	Mh 1,951	De 1,538	1,726	875	700	86	65	4,316,369			
48	Corsets.....	10	1,054	8	41	19	183	803	Ap 970	No 637	646	121	522	1	2	652,174			
49	Cotton goods.....	116	9,813	117	238	208	92	9,158	My 9,581	Fe 8,895	9,352	4,704	4,011	253	384	18,719,177			
50	Cotton lace.....	13	3,970	3	79	232	54	3,602	Fe 3,993	No 3,148	3,458	1,373	1,855	98	132	12,404,430			
51	Cotton small wares.....	26	2,002	16	47	41	18	1,880	Ap 1,972	De 1,767	1,796	485	1,571	21	133	3,298,271			
52	Crucibles.....	5	114	.....	14	9	3	88	Ap 109	Se 75	101	101	.....	.....	.....	821,984
53	Cutlery and edge tools.....	30	1,608	16	59	72	34	1,427	.....	.....	1,416	1,321	68	19	8	4,205,569	
54	Table cutlery, razors, and pocket-knives.	8	386	2	12	31	15	326	Fe 384	Jy 205	321	285	.....	27	9	732,831		
55	Axes and hatchets.....	6	942	2	25	31	14	870	Ja 978	Jy 509	871	821	36	6	8	2,853,988			
56	Scissors, shears, and clippers.....	4	102	1	7	3	2	89	Mh 96	De 83	89	84	5	.....	.....	278,487	
57	Augers, bits, chisels, and planes.	5	76	6	6	4	1	59	Ja 65	Au 55	57	57	.....	.....	.....	138,732
58	All other.....	7	102	5	9	3	2	83	Fe 95	Se ³ 76	78	74	.....	4	.....	201,531	
59	Dairymen's, poultrymen's, and apiarists' supplies.	15	699	5	26	48	39	581	Au 646	No 458	467	461	4	2	.....	2,867,441		
60	Dental goods.....	45	1,839	52	46	56	40	1,645	.....	.....	1,377	590	703	15	69	4,603,698	
61	Teeth.....	10	1,540	9	35	46	20	1,430	Jy 1,742	Au 1,072	1,159	424	654	12	69	4,251,233			
62	All other.....	35	299	43	11	10	20	215	Mh 225	Au 208	218	166	49	3	.....	352,465		
63	Drug grinding.....	4	64	8	3	9	3	41	De 44	Au 38	43	42	1	.....	.....	150,616	
64	Druggists' preparations.....	46	2,480	24	83	323	191	1,859	Fe 2,051	Au 1,729	1,811	810	949	15	37	9,719,432			
65	Dyeing and finishing textiles.....	150	7,251	156	244	351	111	6,389	Mh 6,749	No 6,160	6,222	5,352	727	105	38	17,281,294			
66	Dyestuffs and extracts.....	9	320	2	19	22	12	265	Oc 298	Fe 223	278	276	1	1	.....	1,991,830		
67	Electrical machinery, apparatus, and supplies.	105	19,332	53	489	3,015	909	14,866	Se 15,482	De 13,813	12,881	11,269	1,515	74	23	61,587,091			
68	Electroplating.....	33	206	49	6	4	4	143	Ap 154	Se 135	142	138	2	2	.....	213,532		

¹ Owned power only.² Includes rented power, other than electric.

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.						Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹	Electric (rented).		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$522,870	\$1,421,493	\$6,635,350	.....	\$13,375	\$141,989	\$28,721,396	\$655,295	\$39,831,095	\$10,454,404	26,462	24,007	715	.....	1,740	23,523	1
502,334	1,193,918	4,427,805	\$181,409	475,241	245,509	10,586,244	5,240,791	29,080,593	13,253,558	132,894	102,144	30	2,546	28,174	36,409	2
10,694	6,605	50,263	1,707	533	1,583	1,220,078	12,064	1,497,340	265,198	769	666	82	.....	21	.....	3
480,482	424,008	2,927,562	21,300	15,054	97,362	11,713,607	901,774	22,387,835	9,772,454	16,570	10,051	484	.....	6,035	6,318	4
109,725	498,346	738,988	.....	8,233	27,868	7,429,160	116,846	12,342,217	4,796,211	7,607	5,650	1,520	.....	437	4,525	5
38,947	33,919	48,548	100	12,603	1,407	302,622	5,707	649,728	341,399	295	140	13	.....	142	1	6
23,165	16,818	27,746	.....	7,102	1,165	205,636	4,275	432,259	222,348	207	69	11	.....	127	.....	7
15,782	17,101	20,802	100	5,501	242	96,986	1,432	217,469	119,051	88	71	2	.....	15	1	8
14,730	44,754	99,255	6,700	12,540	584	682,786	4,383	984,609	297,500	174	112	16	.....	46	110	9
437,728	934,264	4,967,976	2,439,901	384,780	27,026	14,317,759	113,097	28,033,167	13,602,311	2,457	484	253	28	1,692	183	10
422,644	929,798	3,281,950	2,371,170	334,113	25,598	14,295,163	72,961	25,761,181	11,393,057	1,881	445	123	28	1,285	183	11
417,674	902,649	3,149,596	2,306,207	325,937	25,055	13,890,536	67,960	25,024,447	11,065,951	1,835	445	111	28	1,251	188	12
4,970	27,149	135,354	64,963	8,176	543	404,827	5,001	736,734	327,106	46	.....	12	.....	34	.....	13
15,084	4,466	1,686,026	68,731	50,667	1,428	22,596	40,136	2,271,986	2,209,254	576	39	130	.....	407	.....	14
13,484	4,466	1,645,645	68,731	49,335	1,428	17,311	39,247	2,217,325	2,160,767	555	39	127	.....	389	.....	15
1,600	.....	40,381	1,332	1,332	.....	5,285	889	54,661	48,487	21	.....	3	.....	18	.....	16
.....	.....	91,870	3,492	3,492	.....	30,822	1,386	176,347	144,139	22	.....	1	.....	21	.....	17
686,727	1,218,823	8,090,555	427,303	647,172	11,159	20,190,233	152,158	37,059,174	16,716,783	3,108	610	269	.....	2,229	186	18
679,049	1,213,889	7,792,503	423,079	631,363	11,059	20,145,972	145,130	36,579,992	16,288,890	2,919	575	260	.....	2,084	186	19
261,680	411,853	3,125,472	225,118	255,417	1,062	6,883,813	49,396	13,040,989	6,107,780	710	.....	40	.....	670	.....	20
250,873	577,945	3,507,178	125,045	277,654	5,519	9,197,508	66,596	16,796,530	7,532,426	1,618	450	170	.....	998	181	21
123,840	157,212	634,472	32,516	45,491	3,591	2,806,094	13,458	4,302,419	1,482,867	393	125	18	.....	250	5	22
14,695	21,965	290,160	34,410	21,605	238	595,502	9,878	1,208,354	602,974	90	.....	.....	.....	90	.....	23
27,955	44,914	235,221	5,990	31,196	649	603,055	5,802	1,231,700	562,843	108	.....	32	.....	70	.....	24
7,678	4,934	298,052	4,224	15,809	100	44,261	7,028	479,182	427,893	189	35	9	.....	145	.....	25
1,400	2,022	138,711	3,235	7,268	14	31,657	3,204	254,885	220,024	32	.....	2	.....	30	.....	26
2,888	1,280	93,497	739	5,766	6	8,489	1,970	139,318	128,859	89	.....	7	.....	82	.....	27
3,390	1,632	58,439	250	2,103	.....	1,555	1,415	70,520	67,550	59	35	.....	.....	24	.....	28
.....	.....	7,405	.....	672	80	2,560	439	14,459	11,460	9	.....	.....	.....	9	.....	29
144,260	404,763	302,307	1,575	52,902	9,568	4,965,858	42,813	6,967,154	1,958,483	2,117	1,184	327	.....	606	403	30
100,260	271,635	181,629	1,575	44,800	6,842	4,167,846	35,978	5,721,622	1,517,798	1,532	640	304	.....	588	403	31
44,000	133,128	120,678	.....	5,102	2,726	1,789,012	6,535	1,245,532	440,685	585	544	23	.....	18	.....	32
102,036	145,655	724,430	1,316	26,305	20,036	1,975,045	30,293	3,671,698	1,666,360	2,006	1,433	196	.....	437	849	33
631,010	617,093	6,634,898	.....	71,855	864,011	1,399,267	28,420,770	42,996,443	13,176,406	36,213	32,176	2	.....	4,035	21,829	34
2,043	2,973	9,556	.....	880	81	20,043	473	45,414	24,293	15	.....	.....	.....	15	.....	35
91,805	56,851	285,439	17,793	1,623	8,352	4,334,421	76,056	5,570,308	1,159,831	1,761	1,668	73	6	14	480	36
604,541	704,187	3,344,275	43,672	334,068	86,624	14,656,776	340,938	24,838,995	9,841,281	14,474	6,773	2,270	9	5,422	1,597	37
478,421	527,339	2,268,575	41,612	221,216	41,605	9,553,346	170,622	15,916,312	6,136,344	6,608	3,968	551	.....	2,089	1,266	38
11,294	5,457	38,610	.....	10,159	6,850	365,863	3,620	751,485	381,097	303	130	.....	.....	73	.....	39
174,826	171,391	1,037,090	2,060	98,693	38,079	4,731,562	166,696	8,171,198	3,272,940	7,663	2,675	1,719	9	3,260	331	40
81,644	33,679	730,560	2,844	22,403	14,829	3,214,024	28,111	4,676,415	1,434,280	3,016	2,230	146	.....	640	45	41
59,701	30,315	590,005	21,239	11,155	2,755,108	4,832	24,972	3,978,430	1,193,250	2,395	1,657	131	.....	607	45	42
21,943	3,364	139,655	2,844	1,164	3,674	4,585,916	3,139	697,985	235,030	621	673	15	.....	33	.....	43
333,073	348,463	2,250,372	65,836	89,307	29,129	4,699,145	52,919	9,308,029	4,555,965	2,514	1,096	342	.....	1,076	761	44
153,034	61,372	727,182	.....	8,467	17,543	3,822,985	43,890	4,984,662	1,117,747	5,110	4,821	165	100	24	970	45
5,448	10,146	12,796	.....	2,055	2,498	210,248	875	456,768	245,403	40	35	.....	.....	5	.....	46
81,014	76,247	824,477	1,759	3,290	27,494	2,037,921	56,111	3,721,515	1,627,483	2,841	1,655	1,028	.....	158	1,932	47
77,843	116,465	274,632	.....	17,697	1,219	400,845	4,832	1,973,760	1,568,083	159	.....	.....	.....	159	.....	48
539,795	367,877	4,409,928	271,469	218,323	48,215	12,425,039	299,184	22,408,007	9,683,784	16,870	13,571	1,751	231	1,317	712	49
278,504	423,894	1,528,155	18,411	5,396	41,957	2,946,603	91,243	6,534,485	3,496,549	4,743	4,374	49	.....	329	2,020	50
123,819	44,790	738,021	62,857	55,086	8,801	1,760,534	40,835	3,457,954	1,656,585	1,798	1,331	281	.....	186	312	51
54,040	17,205	61,122	.....	5,153	482,084	11,259	.....	756,682	263,339	360	340	20	.....	.....	.....	52
98,069	68,678	735,706	10,150	2,274	16,167	938,087	73,100	2,255,845	1,244,658	4,854	3,152	810	304	588	2,817	53
18,700	31,929	157,258	80	1,014	1,288	65,427	5,594	319,744	248,723	539	235	298	.....	6	100	54
55,493	27,313	446,178	10,000	.....	12,806	796,430	56,712	1,593,186	740,044	3,774	2,550	420	304	500	2,687	55
7,764	2,366	56,783	.....	.....	894	30,968	4,616	128,442	82,858	160	62	60	.....	38	30	56
6,484	2,160	36,384	.....	.....	544	10,467	2,897	75,461	62,597	128	110	18	.....	.....	.....	57
9,628	4,910	39,193	70	1,260	635	34,795	3,781	139,012	100,436	253	195	14	.....	44	.....	58
41,002	90,326	357,634	.....	4,159	5,002	375,621	10,332	1,328,808	942,855	964	765	155	.....	44	789	59
93,592	95,916	695,060	.....	23,421	8,321	2,143,985	32,571	4,362,422	2,185,916	443	290	31	.....	122	115	60
66,231	68,460	581,294	.....	6,684	7,846	1,338,647	28,542	3,244,920	1,877,731	328	290	4	.....	34	115	61
27,361	27,456	113,766	.....	10,737	475	805,288	4,029	1,117,502	308,185	115	.....	27	.....	88	.....	62
2,680	12,190	21,661	.....	0,000	705	130,851	5,695	230,511	94,065	190	60	50	.....	80	.....	63
283,501	519,321	770,277	2,890	31,402	32,512	4,034,734	38,821	8,300,728	4,227,173	1,319	1,1					

MANUFACTURES—PENNSYLVANIA.

TABLE 59.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			16 and over.			Under 16.					
						Male.	Female.	Average number.	Number, 15th day of—		Total.	Male.	Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	Emery and other abrasive wheels....	7	148	2	12	29	5	100	Ja	120	No	75	91	91				\$721,120	
2	Enameling.....	7	284	4	14	14	8	244	Ja	206	De	226	249	195	46	8		900,016	
3	Engines, steam, gas, and water.....	56	6,352	24	188	785	133	5,222	Ap	5,421	De	4,995	4,877	4,872	3	2		25,900,475	
4	Engraving and diesinking.....	47	132	49	2	4	4	73	De	82	Ja	69	76	74		2		133,746	
5	Engraving, steel and copper plate, including plate printing.	41	1,239	42	34	85	71	1,007	De	1,071	Jy	881	1,044	557	446	30	11	2,139,176	
6	Engraving, wood.....	6	8	6				2	De	3	Mh	1	3	3				2,046	
7	Envelopes.....	12	646	7	37	78	20	504	Oc	527	Ja	457	515	150	354	6	5	988,914	
8	Explosives.....	33	1,360	18	74	193	38	1,037	My	1,112	De	760	958	929	27	2		8,519,334	
9	Fancy articles, not elsewhere specified.	35	612	29	24	23	21	515					480	201	266	6	7	916,660	
10	Metal novelties.....	7	65	3	7	5	2	48	Se	59	Ja	40	57	34	22	1		135,377	
11	Paper novelties.....	6	143	5	3	1	4	130	Jy	156	Ja	114	123	55	60	2	6	147,053	
12	Celluloid and wood novelties.....	3	27	3	1	1	1	21	Je	27	No	14	17	15	2			27,158	
13	All other.....	19	377	18	13	16	14	316	Oc	344	De	276	283	97	182	3	1	607,072	
14	Feathers and plumes.....	11	489	12	2	23	18	434	Ap	481	De	358	426	44	316	2	64	506,260	
15	Felt goods.....	6	169	1	10	6	2	150	De	172	Fe	84	171	155	16			675,951	
16	Fertilizers.....	47	1,384	51	73	120	30	1,110	Mh	1,391	No	902	997	997				6,658,303	
17	Files.....	7	1,414	2	17	61	19	1,315	Fe	1,338	De	1,285	1,285	958	252	58	17	3,017,605	
18	Fire extinguishers, chemical.....	3	12	2	1	3	1	5	(*)	5	(*)	5	5	5				67,665	
19	Fireworks.....	6	72	3	7	2	3	57	Je	81	Jy	18	79	34	44	1		92,807	
20	Flags and banners.....	8	168	8	3	10	7	140	My	196	Ja	118	136	54	78	4		283,849	
21	Flavoring extracts.....	34	143	35	6	28	5	69	My	73	Ja	66	71	42	21	8		281,484	
22	Flour-mill and gristmill products.....	1,265	4,695	1,613	180	203	104	2,595	No	2,678	Je	2,530	2,687	2,660	10	17		23,352,164	
23	Food preparations, not elsewhere specified.	131	2,079	134	84	240	109	1,512					1,545	1,127	373	27	18	4,310,747	
24	Breadstuff preparations and sirups.	10	328	6	16	41	16	249	Jy	300	Ja	210	203	156	47			1,126,452	
25	Macaroni, vermicelli, and noodles.	35	529	42	12	25	5	445	No	486	Je	409	481	353	106	11	11	987,439	
26	Meat products and sausage casings.	14	179	14	6	22	7	130	No	151	My	112	147	104	43			270,913	
27	Other food products for human consumption.	60	912	64	41	133	72	602	Oc	654	Jy	567	625	426	176	16	7	1,582,946	
28	For animals and fowls.....	12	131	8	9	19	9	86	Mh	99	Jy	72	89	88	1			336,997	
29	Foundry and machine-shop products	1,231	66,822	990	2,231	5,382	1,103	57,116					53,664	52,906	457	281	20	211,900,618	
30	Boiler shops.....	33	2,939	25	121	192	47	2,554	Ja	2,786	No	2,387	2,529	2,521	2	6		9,927,877	
31	Foundries.....	144	8,793	117	229	335	75	8,037	Fe	8,537	No	7,215	7,698	7,513	156	29		17,924,485	
32	Machine shops.....	1,054	55,090	848	1,881	4,855	981	46,525	Ja	49,008	De	42,277	43,437	42,872	299	246	20	184,048,256	
33	Foundry supplies.....	12	242	7	21	32	8	174	Au	208	Fe	141	167	166	1			1,083,693	
34	Fur goods.....	63	347	68	17	33	33	212	No	354	Ap	103	326	171	152	2	1	1,020,459	
35	Furnishing goods, men's.....	54	1,769	72	46	92	32	1,527	No	1,685	Au	1,336	1,646	237	1,316	23	70	1,372,785	
36	Furniture.....	316	13,451	331	392	748	220	11,760					11,553	11,045	362	141	5	27,641,462	
37	Wood, and rattan and willow.....	244	10,042	246	316	416	150	8,914	Mh	9,179	De	8,507	8,761	8,311	318	127	6	16,052,709	
38	Metal.....	15	2,260	17	47	276	51	1,869	Ja	2,057	Jy	1,637	1,812	1,768	40	4		9,471,304	
39	Store and office fixtures.....	57	1,149	68	29	56	19	977	Mh	1,050	Se	925	980	966	4	10		1,217,447	
40	Furs, dressed.....	5	55	8	2	1	1	43	No	50	Mh	34	45	42	2	1		92,120	
41	Galvanizing.....	10	310	1	20	15	4	270	Mh	322	No	229	237	237				460,595	
42	Gas and electric fixtures.....	44	1,138	44	48	91	33	922					870	695	159	16		1,018,328	
43	Gas fixtures.....	19	425	19	18	27	12	349	Ja	432	Jy	270	318	162	151	5		654,017	
44	Electric fixtures.....	14	530	14	19	45	19	433	No	462	De	415	415	401	4	10		890,540	
45	All other.....	11	183	11	11	19	2	140	No	152	Mh	134	137	132	4	1		373,771	
46	Gas, illuminating and heating.....	99	4,556	6	163	1,420	171	2,796	Se	3,263	Fe	2,551	2,636	2,630	6			70,800,220	
47	Gas machines and gas and water meters.	14	1,402	2	23	129	22	1,226					1,166	1,104	56	6		4,012,600	
48	Gas meters and water meters.....	8	1,286		17	110	21	1,138	Ap	1,236	De	982	1,071	1,013	53	5		3,407,728	
49	All other.....	6	116	2	6	19	1	88	Je	93	Ja	82	95	91	3	1		604,872	
50	Glass.....	103	25,013	41	426	657	283	23,606	Mh	26,391	Jy	18,056	26,353	23,493	1,448	1,128	284	61,474,647	
51	Glass, cutting, staining, and ornamenting.	104	2,341	98	84	100	57	2,002	Fe	2,155	Jy	1,785	2,020	1,500	416	47	57	2,911,487	
52	Gloves and mittens, leather.....	7	92	6	5	2	1	78	Ja	107	Se	62	74	25	42	1	6	89,869	
53	Glue, not elsewhere specified.....	8	594	4	19	38	14	519	Fe	581	Se	439	528	504	20	4		2,820,250	
54	Gold and silver, reducing and refining, not from the ore.	5	16	5	2		1	8	(*)	8	(*)	8	9	9				48,223	
55	Grease and tallow, not including lubricating greases.	50	748	91	18	46	3	590	No	609	Ja	578	599	590	8	1		2,578,904	
56	Haircloth.....	15	523	15	12	19	11	466	Fe	482	No	429	476	216	243	7	10	2,056,989	
57	Hair work.....	16	128	23	3	5	4	93	Mh	103	Se	83	94	25	69			231,627	
58	Hammocks.....	3	191	4	8	10	6	163	Je	215	Au	122	146	77	61	5	3	421,787	
59	Hand stamps.....	28	312	28	8	27	21	228	Ja	299	Au	115	219	167	41	11		634,930	
60	Hardware.....	65	5,624	54	145	240	109	5,112					5,031	4,284	444	240	63	12,308,203	
61	Locks.....	9	2,174	3	33	95	43	2,000	Mh	2,068	My	1,933	1,987	1,677	189	94	27	4,764,767	
62	Hinges and other builders' hardware.	13	743	11	15	25	10	682	Mh	730	De	637	637	428	147	40	22	2,008,885	
63	All other.....	43	2,707	40	97	84	56	2,430	Ap	2,592	Jy	2,304	2,407	2,179	108	106	14	5,534,551	
64	Hardware, saddlery.....	6	30	5	3		1	21	Mh	23	Ja	18	21	21				73,482	

1 Owned power only.

2 Includes rented power, other than electric.

MANUFACTURES—PENNSYLVANIA.

67

OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.							Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.			Primary horsepower.					Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.			Fuel and rent of power.	Total.	Steam engines. ¹	Internal-combustion engines. ²	Water wheels and motors. ¹		Electric (rented).

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$27,945	\$38,783	\$66,286	\$1,000	\$1,292	\$1,889	\$99,744	\$13,723	\$324,512	\$211,045	512	325	.....	180	7	156	1
22,493	17,555	95,254	.....	2,973	1,773	414,619	11,766	643,669	217,284	795	410	300	.....	85	247	2
482,489	1,013,679	3,520,794	125	6,804	57,121	4,542,632	185,695	11,391,872	6,663,545	12,375	8,540	3,103	.....	732	11,942	3
2,340	8,492	58,362	1,133	9,753	272	14,239	2,568	160,785	143,978	95	15	52	.....	28	.....	4
89,871	132,051	602,297	50,632	49,475	3,001	539,641	12,731	1,773,679	1,221,307	509	125	34	.....	350	7	5
.....	.....	2,000	601	826	.....	524	20	11,032	10,488	.....	.....	.....	.....	.....	.....	6
61,100	58,452	218,494	.....	27,050	493	680,951	10,637	1,301,281	609,693	231	15	5	.....	211	.....	7
199,959	250,407	716,033	.....	3,629	32,866	4,005,411	101,629	6,003,048	1,896,008	5,831	5,004	10	100	717	1,781	8
32,559	27,835	198,505	19,725	17,359	1,508	504,815	9,070	1,082,203	568,318	209	67	39	.....	103	.....	9
6,003	3,419	25,326	400	3,271	154	67,981	673	134,316	65,662	63	.....	13	.....	50	.....	10
3,120	1,809	35,744	1,200	1,180	580	68,548	1,006	150,426	80,872	37	20	15	.....	2	.....	11
1,200	1,250	10,504	50	2,238	11	5,762	152	26,358	20,444	7	7	.....	.....	.....	.....	12
22,236	21,357	126,931	18,075	10,670	763	362,524	7,239	771,103	401,340	102	40	11	.....	51	.....	13
6,500	31,785	147,737	.....	14,976	1,109	350,197	4,183	787,111	432,731	35	25	.....	.....	10	.....	14
28,224	7,888	88,873	.....	1,923	1,283	288,786	12,835	518,732	217,111	705	495	.....	140	70	.....	15
183,252	164,221	608,406	5,494	22,853	21,277	4,036,995	133,184	6,177,610	2,007,431	4,647	3,779	40	138	690	1,148	16
68,886	56,447	582,894	.....	11,520	4,519	335,646	64,871	1,495,004	1,094,487	1,694	1,445	20	.....	229	245	17
1,350	2,232	3,172	723	820	.....	785	17	11,565	10,763	113	.....	110	.....	3	.....	18
7,249	2,351	36,286	.....	1,845	109	46,359	641	130,711	83,711	25	.....	.....	.....	25	.....	19
5,192	10,503	60,276	1,000	2,260	417	237,531	1,886	379,851	140,434	137	125	6	.....	6	.....	20
8,325	22,868	31,595	.....	7,339	1,474	196,914	1,450	379,224	180,860	28	8	.....	.....	20	.....	21
276,723	195,473	1,424,085	2,873	100,819	113,277	36,781,338	315,544	43,626,356	6,529,474	61,790	20,489	9,147	26,446	5,708	510	22
172,336	253,181	788,882	6,270	30,438	25,348	4,723,869	85,633	7,291,254	2,481,752	3,490	1,718	466	155	1,151	451	23
24,166	52,668	110,245	.....	9,980	4,720	1,064,853	18,418	1,516,261	432,990	680	226	6	.....	448	74	24
16,146	26,352	210,092	100	6,150	5,268	805,091	20,652	1,350,919	525,176	1,215	553	280	155	227	122	25
6,684	19,527	64,504	.....	720	1,061	841,821	3,587	1,048,999	203,591	184	110	14	.....	60	.....	26
114,681	130,260	355,317	4,190	11,418	13,095	1,444,320	28,832	2,584,484	1,111,332	983	637	72	.....	274	255	27
10,679	24,374	48,724	1,980	2,170	1,204	567,784	14,144	790,591	208,663	428	192	94	.....	142	.....	28
5,612,529	6,577,852	36,968,380	315,805	711,524	813,762	60,793,010	2,959,340	140,799,115	77,046,765	136,025	79,908	21,624	530	33,963	78,354	29
290,611	243,302	1,495,742	1,746	5,992	27,162	3,246,242	117,293	6,135,780	2,772,245	6,393	4,242	1,943	.....	208	6,915	30
506,777	430,016	5,153,448	5,378	121,607	84,295	7,566,703	586,931	16,188,061	8,034,427	18,783	9,227	1,861	25	7,670	5,052	31
4,815,141	5,904,534	30,319,190	308,681	584,025	702,305	49,980,065	2,255,116	118,475,274	66,240,093	110,849	66,439	17,820	505	26,085	66,387	32
59,218	34,571	103,200	.....	2,282	4,241	249,953	19,110	551,024	281,961	1,345	570	425	70	280	8	33
32,453	31,378	149,183	1,850	70,270	2,598	518,318	4,847	1,043,417	520,252	45	.....	.....	.....	45	.....	34
77,860	112,199	468,013	49,611	35,559	4,325	1,708,164	13,332	2,758,916	1,037,420	567	215	91	.....	261	48	35
798,133	931,597	6,393,895	63,704	230,368	74,366	10,983,490	259,051	24,147,096	12,904,555	20,424	16,690	1,165	4	2,566	3,007	36
541,067	470,803	4,511,942	52,164	142,848	51,244	7,425,793	195,999	16,662,568	9,040,776	16,578	14,177	687	.....	1,710	2,403	37
195,692	397,518	1,338,124	.....	33,386	20,809	2,765,807	43,162	5,517,263	2,708,294	2,511	1,760	147	.....	604	472	38
61,374	63,276	543,829	11,600	54,134	2,313	791,890	19,890	1,967,265	1,155,485	1,335	753	331	.....	251	132	39
2,450	2,000	32,393	2,000	3,610	.....	82,298	946	145,638	62,394	28	25	.....	.....	3	.....	40
42,169	12,165	134,101	1,622	10,460	3,002	492,621	23,410	757,142	241,111	153	43	65	.....	45	2	41
114,765	106,411	548,519	5,534	36,892	5,210	746,552	28,219	1,800,705	1,025,932	648	208	205	.....	235	66	42
40,946	38,044	163,390	1,524	14,085	1,688	316,972	11,392	641,999	313,635	250	8	140	.....	102	5	43
56,009	54,562	301,446	4,000	11,838	3,029	271,894	11,407	837,188	553,885	274	200	10	.....	64	60	44
17,810	13,805	83,683	10	10,969	493	157,688	5,420	321,520	158,412	124	55	.....	.....	69	1	45
232,732	1,295,301	1,420,142	6,631	1,950,783	96,632	1,996,783	4,443,851	16,745,216	10,305,081	12,552	11,094	1,219	73	166	2,503	46
98,217	203,726	792,941	350	11,942	16,725	1,604,209	27,423	3,607,577	1,975,945	1,191	661	321	.....	209	488	47
76,315	173,175	724,564	.....	9,248	13,731	1,380,442	25,407	3,061,178	1,655,329	922	426	299	.....	197	458	48
21,902	30,551	68,377	350	2,694	2,994	223,767	2,016	546,399	320,616	269	235	22	.....	12	30	49
1,139,303	883,311	15,214,434	47,023	35,972	188,323	11,781,613	3,760,092	39,797,822	24,256,117	61,399	41,517	16,394	1	3,487	19,673	50
129,561	157,207	949,408	2,701	35,460	8,407	1,643,202	43,748	3,443,910	1,756,960	1,368	724	259	80	305	95	51
1,590	1,679	24,460	.....	1,770	645	79,349	922	123,326	43,055	30	6	8	.....	16	.....	52
75,511	51,417	290,002	22,865	21,241	10,212	1,321,946	96,305	2,028,762	610,511	1,628	1,611	5	.....	12	897	53
2,780	624	5,732	.....	4,185	42	189,568	1,226	222,247	31,453	54	35	.....	.....	19	.....	54
37,800	38,779	357,822	400	10,055	9,196	2,239,564	92,631	3,129,735	797,540	1,795	1,743	12	.....	40	271	55
42,737	36,090	232,742	2,913	26,576	3,487	1,310,738	13,009	1,938,394	614,647	1,186	1,042	134	.....	10	105	56
2,992	7,532	49,765	.....	17,378	532	74,375	1,942	219,373	143,056	10	.....	.....	.....	10	.....	57
7,800	14,050	61,720	4,000	5,800	1,101	203,251	848	367,833	163,734	158	125	30	.....	3	.....	58
32,950	51,222	149,314	2,250	17,518	1,642	190,710	7,795	533,344	334,839	252	200	30	.....	22	54	59
303,452	255,363	2,360,777	11,250	23,278	35,526	2,920,495	184,355	7,087,845	4,582,995	6,680	5,191	738	10	1,041	2,724	60
92,258	110,678	819,099	.....	10,170	11,722	844,943	56,328	2,707,249	1,805,978	1,930	1,550	240	.....	140	1,138	61
37,703	30,324	295,488	1,250	2,962	6,043	546,899	26,230	1,004,723	431,894	863	295	134	.....	434	.....	62
173,491	114,361	1,246,190	10,000	10,146	17,761	1,528,953	101,797	3,975,873	2,345,123	4,187	3,346	364	10	467	1,586	63
3,180	336	13,890	500	480	590	14,979	1,588	42,339	25,772	107	30	77	.....	.....	.....	64

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

MANUFACTURES—PENNSYLVANIA.

TABLE 59.—DETAIL STATEMENT FOR THE STATE AND FOR CITIES OF 50,000 INHABITANTS

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.		
								Maximum month.	Minimum month.							

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

1	Hat and cap materials.....	5	56	6	4	6	7	33	Je	46	Fe ^a	27	32	19	11	2	-----	\$243,333
2	Hats and caps, other than felt, straw, and wool.....	66	907	88	18	30	15	756	De	777	Au	730	789	521	253	9	6	816,274
3	Hats, fur-felt.....	27	6,991	27	32	199	19	6,714	Ja	7,109	De	6,315	6,590	4,954	1,476	94	66	19,525,904
4	Hats, straw.....	9	339	13	11	11	11	343	Fe	456	Au	174	410	107	299	3	1	486,804
5	Hats, wool-felt.....	11	498	19	9	9	2	459	My	597	Ja	301	421	273	141	7	-----	614,422
6	Hosiery and knit goods.....	498	43,465	517	787	678	353	41,130	Mh	42,885	Au	39,548	41,832	8,801	29,081	930	3,020	45,722,610
7	House-furnishing goods, not elsewhere specified.....	32	673	28	19	36	21	569	-----	-----	-----	-----	564	193	352	8	11	1,615,074
8	Comforts, quilts, feather pillows, and beds.....	9	512	6	14	32	19	441	Jy	479	My	406	432	108	307	8	9	1,423,888
9	All other.....	23	161	22	5	4	2	128	Se	140	Je	117	132	85	45	-----	2	191,186
10	Ice, manufactured.....	189	2,667	109	230	148	56	2,124	Jy	2,871	De	1,520	2,300	2,276	17	7	-----	20,018,282
11	Ink, printing.....	9	182	7	8	10	6	151	Fe ^a	152	Ja	148	152	148	4	-----	-----	1,206,157
12	Ink, writing.....	6	29	4	6	3	-----	16	No	18	Ja ^a	15	16	10	5	1	-----	47,005
13	Instruments, professional and scientific.....	57	1,014	59	43	81	35	796	-----	-----	-----	-----	800	761	26	12	1	1,691,603
14	Medical and surgical.....	21	609	18	16	36	21	518	Fe	528	No	502	513	481	21	10	1	820,929
15	All other.....	36	405	41	27	45	14	278	De	291	Au	268	237	230	5	2	-----	870,734
16	Iron and steel, blast furnaces.....	52	13,205	14	285	1,210	178	11,513	Ap	13,230	No	9,417	10,988	10,981	4	3	-----	180,585,390
17	Iron and steel, steel works and rolling mills.....	178	144,954	36	2,101	9,640	1,222	131,955	Mh	142,367	No	114,695	129,021	127,914	420	651	36	601,245,338
18	Iron and steel, bolts, nuts, washers, and rivets.....	25	2,868	12	94	163	52	2,547	Ja	2,760	No	2,231	2,247	2,086	99	62	-----	10,911,388
19	Iron and steel forgings.....	43	2,445	12	95	110	23	2,205	Ap	2,385	Oc	2,010	2,332	2,268	1	63	-----	8,265,005
20	Iron and steel, nails and spikes, cut and wrought, including wire nails.....	8	270	4	13	35	7	211	-----	-----	-----	-----	249	212	33	4	-----	1,020,224
21	Cut and wire nails.....	4	110	2	8	5	5	90	Ap	94	Ja ^a	87	88	84	2	2	-----	386,713
22	All other, including tacks.....	4	160	2	5	30	2	121	Oc ^a	160	Ja ^a	107	161	128	31	2	-----	633,511
23	Iron and steel, cast-iron pipe.....	7	1,945	-----	27	64	19	1,835	Jy	1,992	No	1,609	1,789	1,779	4	6	-----	5,241,345
24	Iron and steel, wrought pipe.....	12	4,416	3	116	272	35	3,990	Ap	5,450	No	2,516	3,604	3,603	-----	1	-----	16,803,064
25	Japanning.....	3	20	3	-----	-----	-----	16	Mh	19	Au ^a	15	15	13	2	-----	-----	19,581
26	Jewelry.....	117	709	143	20	24	29	549	Fe	568	Au	531	542	464	55	21	2	1,511,036
27	Jewelry and instrument cases.....	10	115	9	7	8	2	89	Oc	104	Ja	82	85	43	41	1	-----	77,081
28	Fute goods.....	11	880	10	19	17	5	829	Fe	864	De	761	771	383	348	20	20	1,741,086
29	Labels and tags.....	16	511	11	19	24	12	445	Ap ^a	457	De	424	437	225	186	20	6	700,230
30	Lamps and reflectors.....	17	497	20	18	36	18	405	No	430	Ja	362	431	366	59	5	1	1,476,914
31	Lapidary work.....	5	22	4	-----	1	1	16	(*)	16	(*)	16	16	14	1	1	-----	12,000
32	Lasts.....	5	100	7	2	8	1	62	Fe ^a	87	Au ^a	77	85	85	-----	-----	-----	129,335
33	Lead, bar, pipe, and sheet.....	4	83	-----	6	16	3	58	Jy	64	Oc ^a	56	56	56	-----	-----	-----	913,707
34	Leather goods, not elsewhere specified.....	28	1,149	33	15	111	39	951	Oc	1,051	Ja	896	950	977	432	30	111	1,619,162
35	Leather, tanned, curried, and finished.....	120	12,833	106	293	366	80	11,988	Je	12,460	De	11,229	11,266	10,727	472	62	35	79,908,690
36	Lime.....	265	3,637	281	89	91	48	3,128	Fe	3,438	Ja	2,766	3,199	3,195	1	3	-----	7,887,418
37	Liquors, distilled.....	71	1,280	122	101	246	40	771	Mh	901	Au	612	899	708	171	18	2	20,371,994
38	Liquors, malt.....	215	9,268	109	570	1,012	65	7,512	Jy	7,901	Fe	7,225	7,354	7,335	14	5	-----	109,939,985
39	Liquors, vinous.....	5	6	5	-----	-----	-----	1	Se ^a	4	Au ^a	1	8	6	-----	-----	-----	29,925
40	Lithographing.....	23	1,007	18	28	78	25	858	Mh	903	Au	842	850	679	135	25	11	1,993,605
41	Looking-glass and picture frames.....	46	368	55	10	19	19	265	No	304	Jy	224	255	218	34	3	-----	452,580
42	Lubricating greases.....	12	252	6	20	36	37	153	Au	170	De	121	17	117	-----	-----	-----	1,187,310
43	Lumber and timber products.....	1,654	13,365	2,122	219	216	54	10,754	Ap	11,727	De	10,183	13,603	13,536	54	11	2	17,434,835
44	Lumber, planing-mill products, not including planing mills connected with sawmills.....	613	10,518	760	477	506	189	8,586	Au	9,207	Fe	7,868	8,451	8,263	115	65	8	26,000,548
45	Malt.....	4	19	2	4	-----	-----	13	Fe	23	Je ^a	8	23	23	-----	-----	-----	73,264
46	Marble and stone work.....	602	8,424	703	296	203	56	7,166	-----	-----	-----	-----	7,632	7,593	11	28	-----	11,885,999
47	Marble and stone.....	517	3,700	630	117	114	31	2,808	Au	3,234	Fe	2,144	2,992	2,982	4	6	-----	6,221,875
48	Roofing slate.....	51	3,443	42	127	62	14	3,198	Ap	3,491	Fe	2,908	3,478	3,457	5	16	-----	4,360,360
49	Other slate products.....	34	1,281	31	52	27	11	1,160	Au	1,235	Fe	1,043	1,102	1,164	2	6	-----	1,294,764
50	Mattresses and spring beds, not elsewhere specified.....	74	1,225	81	45	70	43	986	Je	1,023	Ja	950	988	770	200	17	1	2,211,337
51	Millinery and lace goods, not elsewhere specified.....	114	4,026	160	50	113	118	3,585	-----	-----	-----	-----	3,491	702	2,711	12	66	3,675,470
52	Embroideries.....	33	647	47	15	5	7	573	Ap	609	Jy	528	582	79	470	6	27	468,117
53	Trimmed hats and hat frames.....	50	1,373	69	20	51	70	1,163	Mh	1,562	Jy	775	1,245	185	1,045	3	12	891,915
54	Dress and cloak trimmings, braids and fringes.....	10	446	18	4	30	6	388	Mh	535	Ap	281	341	163	169	2	7	786,425
55	Women's neckwear.....	4	86	13	-----	5	3	65	Mh ^a	74	Jy	44	71	2	69	-----	-----	73,178
56	All other.....	17	1,474	13	11	22	32	1,396	Oc	1,479	Ja	1,288	1,252	273	958	1	20	1,455,835
57	Mineral and soda waters.....	482	1,938	555	65	114	53	1,151	Jy	1,298	Ja	965	1,106	1,079	12	15	-----	4,797,194
58	Minerals and earths, ground.....	56	1,000	38	82	44	14	822	Se	892	De	663	798	794	-----	-----	-----	4,688,621
59	Mirrors, framed and unframed, not elsewhere specified.....	13	306	11	7	19	14	255	No	265	My ^a	247	266	203	56	5	2	661,361
60	Models and patterns, not including paper patterns.....	79	512	83	33	10	9	377	Mh	405	Se	347	397	395	-----	-----	-----	559,562
61	Motorcycles, bicycles, and parts.....	8	202	10	13	15	8	156	Ap	250	Au	77	126	125	1	-----	-----	340,292

^a Owned power only.^a Includes rented power, other than electric.

MANUFACTURES—PENNSYLVANIA.

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OR MORE, BY INDUSTRIES, AND FOR CITIES OF 10,000 TO 50,000 INHABITANTS: 1914—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, including internal revenue and corporation income.	Principal materials.	Fuel and rent of power.			Total.	Steam engines. ¹	Internal combustion engines. ²	Water wheels and motors. ¹	Electric (rented).	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

\$15,200	\$8,780	\$14,623	.....	\$5,060	\$228	\$283,185	\$435	\$371,020	\$87,400	4	.....	.....	.....	.....	1
39,954	90,676	446,338	\$35,581	38,045	1,010	849,613	11,150	1,759,284	898,521	113	10	4	.....	99	2
155,155	225,432	3,933,731	2,000	14,703	82,820	3,762,624	125,906	11,040,820	7,152,290	6,241	5,527	45	.....	669	3
28,328	21,988	161,733	3,596	22,290	548	641,429	7,233	1,010,821	362,159	74	30	.....	.....	44	4
14,125	9,290	175,166	.....	4,730	3,478	423,021	14,504	776,878	339,293	1,072	990	45	.....	37	5
1,431,804	874,025	15,382,310	1,103,541	439,683	102,300	37,313,244	443,057	64,153,449	26,397,148	23,861	16,639	1,507	775	4,940	6
44,716	51,090	207,042	1,517	9,520	3,394	1,283,727	9,955	1,881,817	588,135	639	460	31	8	140	7
41,030	40,773	157,835	200	4,066	3,024	1,092,132	7,347	1,557,000	457,521	514	435	.....	.....	79	8
3,686	4,317	49,207	1,317	5,454	370	191,595	2,608	324,817	130,614	125	25	31	8	61	9
278,011	149,612	1,288,879	17,978	40,731	102,261	546,423	906,611	5,194,493	3,741,459	43,937	40,759	1,889	199	1,090	10
25,100	11,314	106,178	100	6,513	2,332	809,892	13,449	1,051,871	228,530	341	200	112	.....	29	11
7,296	1,973	6,276	248	1,420	285	35,245	326	62,364	26,793	37	16	21	.....	.....	12
108,362	103,593	460,686	3,189	48,990	6,012	373,430	18,019	1,653,773	1,262,324	808	562	119	.....	127	13
57,430	63,847	284,565	534	27,766	2,385	141,421	10,877	924,514	772,216	645	550	53	.....	37	14
50,932	39,746	176,121	2,655	3,627	3,627	232,009	7,142	729,259	490,108	163	12	61	.....	90	15
918,887	1,599,397	9,337,086	223,043	418,731	760,124	82,537,985	32,963,403	135,806,007	20,304,078	477,588	414,815	60,605	306	1,802	16
0,515,506	12,211,843	96,926,375	148,031	463,593	2,205,514	258,086,070	27,295,414	448,106,324	162,724,240	1,270,642	1,104,594	28,418	213	47,417	17
297,006	188,080	1,241,430	13,176	10,312	48,795	3,951,398	193,330	6,562,382	2,417,654	8,796	3,535	845	350	4,066	18
202,389	143,766	1,356,031	18,742	7,637	22,572	2,361,443	351,637	5,166,761	2,453,681	9,008	5,429	468	.....	3,111	19
31,020	71,394	118,635	.....	1,225	1,442	387,897	15,077	697,083	294,109	887	300	400	.....	187	20
15,820	6,192	45,375	.....	1,225	99	273,060	6,775	363,787	83,952	327	150	.....	.....	177	21
15,200	65,202	73,260	.....	1,343	1,343	114,837	8,302	333,296	210,157	560	150	400	.....	10	22
85,959	76,786	1,028,490	.....	2,900	25,316	3,084,740	210,624	4,550,718	1,255,354	4,062	1,866	.....	.....	2,196	23
272,715	272,933	2,544,151	2,150	2,690	62,435	12,963,376	538,646	17,776,655	4,274,631	10,067	9,807	.....	.....	260	24
.....	307	9,928	.....	3,000	111	13,230	1,028	35,662	21,404	.....	.....	.....	.....	4	25
26,688	44,195	381,965	14,028	45,372	3,082	808,611	11,377	1,692,797	872,809	319	.....	98	.....	221	26
11,333	8,383	40,822	275	6,340	94	29,463	1,792	120,453	89,198	36	.....	9	.....	27	27
61,599	13,607	344,099	12,100	7,420	5,611	1,171,626	18,622	1,791,545	601,297	1,918	1,722	65	.....	131	28
36,224	42,684	219,169	18,292	5,768	2,726	526,450	7,887	1,018,363	484,026	206	4	53	.....	149	29
41,343	58,254	238,069	.....	14,782	5,463	544,683	13,569	1,062,826	504,574	500	350	29	.....	121	30
.....	1,040	12,080	250	2,106	6	30,360	408	54,200	23,432	6	.....	.....	.....	6	31
3,700	13,475	55,100	.....	2,529	180	28,141	4,025	135,616	103,450	183	100	40	.....	43	32
20,106	25,024	39,447	.....	940	5,216	872,057	9,888	1,006,136	124,181	537	470	37	.....	30	33
57,944	146,941	399,467	15	23,260	4,260	924,636	8,706	1,839,899	906,527	321	198	28	.....	95	34
932,872	444,242	6,492,420	6,790	164,946	230,450	67,435,795	872,925	85,252,532	16,943,812	39,964	33,105	5,722	26	1,111	35
150,807	96,774	1,403,687	4,156	21,359	25,832	661,530	731,495	3,948,018	2,554,093	8,725	6,496	276	66	1,881	36
319,182	398,515	422,277	12,696	37,356	10,349,080	3,391,573	152,283	15,950,605	12,406,749	7,218	6,654	221	12	337	37
2,209,961	1,332,256	6,320,629	48,458	458,712	9,039,108	14,516,901	1,185,620	50,362,792	34,660,271	58,147	55,297	526	56	2,268	38
84,825	147,403	595,748	13,989	63,240	2,494	841,282	16,190	1,946,687	1,089,215	5	.....	.....	.....	.....	39
14,543	29,535	148,205	320	25,408	1,335	255,699	5,248	579,686	318,739	185	100	5	.....	80	40
54,826	88,749	88,888	49,744	10,126	7,073	586,456	13,440	1,361,355	761,459	1,506	1,300	259	.....	7	41
309,101	201,542	5,110,816	2,397,890	14,045	248,136	6,420,124	103,533	19,983,752	13,454,095	56,118	52,501	1,814	1,498	305	42
758,182	551,373	5,535,602	209,517	136,202	106,765	14,116,534	291,043	24,861,997	10,454,420	35,854	20,699	3,477	755	10,923	43
2,850	9,135	.....	.....	1,265	225	73,927	1,499	100,096	24,670	56	54	.....	.....	2	45
370,784	192,785	4,136,884	96,800	76,265	53,469	3,488,693	332,157	10,631,294	6,810,444	27,179	21,395	2,523	155	3,106	46
169,636	122,728	1,905,167	93,977	61,213	28,161	2,808,285	154,301	6,892,323	3,899,736	10,760	6,313	2,463	155	1,829	47
132,623	45,206	1,594,106	2,212	3,947	21,652	319,749	110,999	2,449,917	2,019,169	11,848	11,087	35	.....	726	48
68,525	24,851	637,611	611	11,105	3,666	360,658	66,857	1,319,054	891,539	4,571	3,995	25	.....	551	49
88,796	87,149	541,646	2,696	54,328	8,481	1,713,416	26,169	3,063,127	1,323,542	1,746	651	317	.....	778	50
91,817	179,991	1,451,919	6,932	149,138	4,839	2,851,963	27,818	6,272,893	3,393,112	934	625	66	.....	243	51
20,827	6,831	236,604	5,436	15,730	836	112,612	5,883	508,578	390,083	135	25	5	.....	105	52
37,543	79,531	551,065	1,033	61,504	643	1,445,053	8,210	2,614,957	1,161,694	173	120	11	.....	76	53
5,810	41,973	182,647	.....	10,776	1,864	310,157	5,412	779,003	463,434	.....	.....	29	.....	24	54
.....	6,464	26,465	.....	2,680	.....	78,744	684	164,154	84,726	7	.....	.....	.....	7	55
27,637	45,142	455,138	463	58,448	1,496	905,397	7,629	2,206,201	1,293,175	532	480	21	.....	31	56
105,885	203,500	711,040	5,980	92,776	31,286	2,181,346	48,937	5,078,746	2,848,463	1,901	688	396	24	793	57
127,904	37,550	426,595	13,074	23,173	16,430	994,354	139,324	2,280,939	1,147,261	8,930	5,793	199	430	2,508	58
65,600	31,995	142,816	975	7,618	3,367	441,848	8,241	799,807	349,718	327	200	80	.....	47	59
37,718	9,210	264,232	975	22,986	1,973	138,931	12,606	584,627	433,090	803	15	365	.....	423	60
13,760	13,583	110,524	.....	2,280	644	180,181	5,805	351,593	165,607	122	65	15	.....	42	61

* Same number reported for one or more other months.

* Same number reported throughout the year.